Technical Reference

Version 6.07.00 - November 2012

IP.MOSGateway

Production Control

EVS

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Regional Contacts

The address and phone number of the EVS headquarters are usually mentioned in the Help > About menu in the user interface.

You will find the full list of addresses and phone numbers of local offices either at the end of this user manual (for manuals on hardware products) or at the following page on the EVS website: http://www.evs.tv/contacts.

User Manuals on EVS Website

The latest version of the user manual, if any, and other user manuals on EVS products can be found on the EVS download center, on the following webpage: http://www.evs.tv/downloadcenter.

1. Installation

1.1. Overview Components

The following components are delivered with the IPMOSGateway installation set:

- Component: IPMOSGateway (06.07.00.01)
  - Files: IPMosGateway.exe
  - Location: ftp://ftp.evs.tv/IP Director/MOSGateway/IP Mos Gateway/
- Component: MOS ActiveX Player (05.91.0.6)
  - Files: Player.exe (32 bit), Player_x86.exe (64 bit), Log.dll, vcredist_x86.exe
  - Location: ftp://ftp.evs.tv/IP Director/MOSActiveXPlayer/
- Component: IPMOSBrowser (05.91.0.5)
  - Files: Configurator.exe, EVSBrowserConfig.exe (5.91.0.1), EVSBrowser Setup.msi, ActiveX-config.VBS, EVSBrowserINews.ocx (5.91.0.5), EVSBrowserINews Placeholder 32 bit.reg, EVSBrowserINews Placeholder 64 bit.reg
  - Locations: ftp://ftp.evs.tv/IP Director/MOSGateway/iNewsActiveX/Configurator/

    ftp://ftp.evs.tv/IP Director/MOSGateway/EVSBrowserConfig/

    ftp://ftp.evs.tv/IP Director/MOSGateway/iNewsActiveX/

    ftp://ftp.evs.tv/IP Director/MOSGateway/iNewsActiveX/5.91.0.5 /

    ftp://ftp.evs.tv/IP Director/MOSGateway/iNewsActiveX/Placeholder/
- Component: RunAsSpc (2.0.8.0)
  - Files: Runasspc.exe
  - Location: ftp://ftp.evs.tv/IP Director/MOSGateway/RunAsSpc/
- Component: Software Player (01.05.21)
  - Files: MMEPlayer.exe + dlls
  - Location: ftp://ftp.evs.tv/IP Director/MOSGateway/MOSActiveXPlayer/05.91.0.1/With Sofware Player 01_05_21/

1.2. EVS Side

1.2.1. Installing IPMOSGateway

IPMOSGateway can be installed on the following devices:

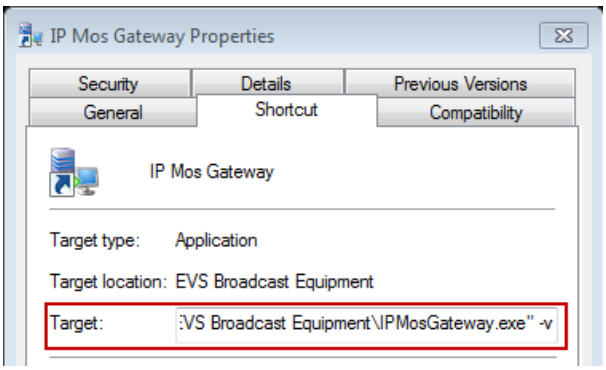
- IPDirector server (not preferred)
- Separate server with minimally Microsoft Windows XP running on it.

To install the IPMOSGateway on the server where you will operate it, proceed as follows:

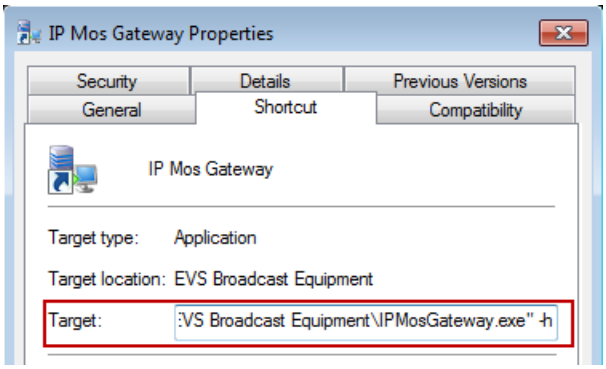
1. Manually create the following directory: `C:\Program Files\EVS Broadcast Equipment\IPMosGateway`.
2. Copy the file `IPMosGateway.exe` to this directory.
3. If needed, create a shortcut of this application on the desktop and/or in the startup menu.
4. Right-click the IPMosGateway shortcut on the desktop.

   The IP Mos Gateway Properties window appears.
5. (Optional) Open the Shortcut tab and do one of the following:

- Add the option **-v** to the shortcut in the **Target** field to start the IPMOSGateway in visible mode: `"C:\Program Files\EVS Broadcast Equipment\IPMosGateway\IPMosGateway.exe" -v`.



- Add the option **-h** to the shortcut in the **Target** field to start the IPMOSGateway in hidden mode: `"C:\Program Files\EVS Broadcast Equipment\IPMosGateway\IPMosGateway.exe" -h`.



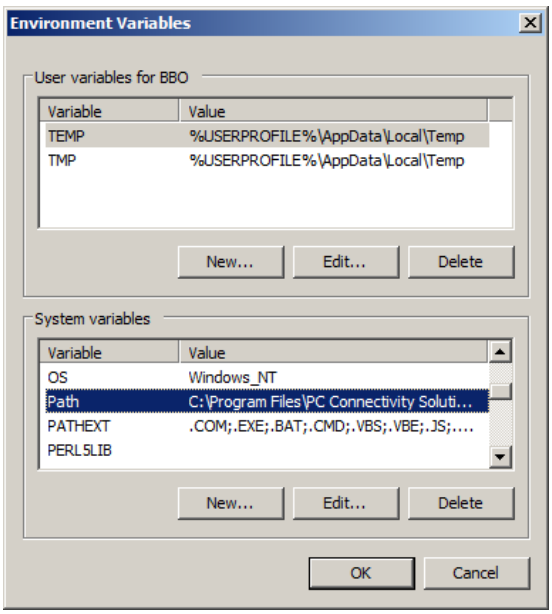
1.3. Newsroom Control System (NCS) Side

1.3.1. Installing the EVS Software Player

This step is an optional step and is only needed when a low-resolution media layer exists from the EVS system in place.

To install the EVS software player on the Newsroom Control System (NCS) client, proceed as follows:

1. Manually create the following directory on the NCS client: `C:\Program Files\EVS Broadcast Equipment\Software Player`.
2. From the EVS FTP site, copy the software player executable and dlls to this folder.
3. From the Desktop of the NCS client PC, right-click **My Computer** and click **Properties**.
4. Click the **Advanced System Settings** link in the left column.
5. In the System Properties window click the **Environment Variables** button in the Advanced tab.
6. In the System Variables list select the variable Path.



7. Click the **Edit** button.
8. Add the path of the EVS software player preceded by a semicolon:
   - `;C:\Program Files\EVS Broadcast Equipment\Software Player\` for 32-bit machines.
   - `;C:\Program Files(x86)\EVS Broadcast Equipment\Software Player\` for 64-bit machines.

1.3.2. Installing the MOS ActiveX Player

From the EVS FTP site, copy the `Player.exe` (32 bit) or `Player_x86.exe` (64 bit) file from the directory `IP Director/MOSGateway/MOSActiveXPlayer/5.91.0.6` to the directory `C:\Program Files\EVS Broadcast Equipment\Software Player` on the NCS client PC. If you want to install it in a different directory, you will have to add the path to the system path.

Rename the `Player_x86.exe` file to `Player.exe`. This is the x86 version which will ensure that the player runs in 32-bit mode, even if it runs on a 64-bit machine.

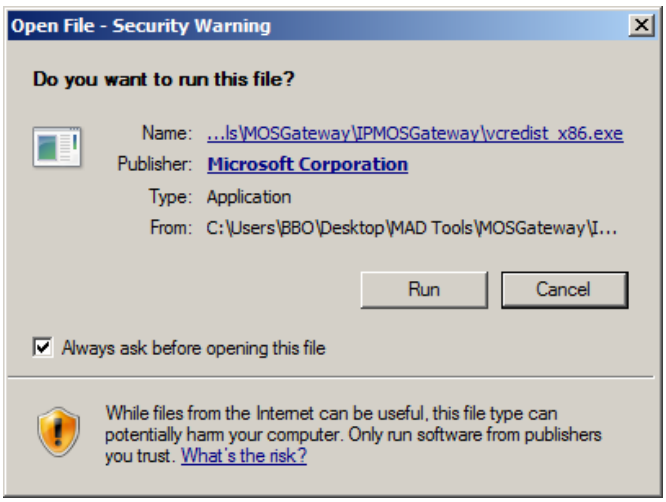
From the EVS FTP site, also copy the Log.dll file from the directory `IP Director/MOSGateway/MOSActiveXPlayer/` to the directory `C:\Program Files\EVS Broadcast Equipment\Software Player` on the NCS client PC.

For the player to work, .NET should be installed.

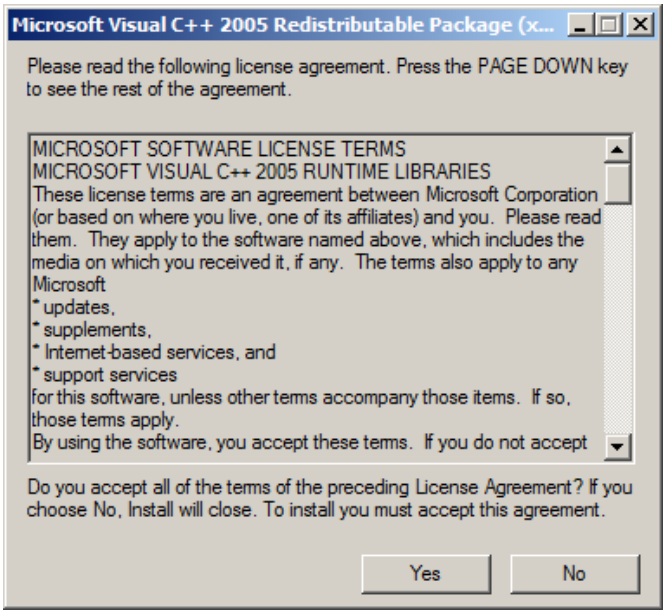
1.3.3. Installing Microsoft Visual C++ 2005 Redistributable Package (x86)

For the MOS ActiveX Player to function properly, the Microsoft Visual C++ 2005 Redistributable Package (x86) has to be installed on the NCS client PC. To install the package, proceed as follows:

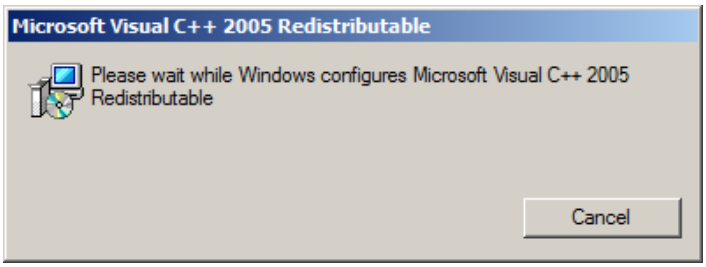
1. Copy the `vcredist_x86.exe` file from the folder IP Director/MOSGateway/MOSActiveXPlayer on the EVS FTP site to the NCS client PC.
2. Double-click the file and click **Run** to start the installation.


Open File - Security Warning
Do you want to run this file?
Name: ...ls\MOSGateway\IPMOSGateway\vcredist_x86.exe
Publisher: Microsoft Corporation
Type: Application
From: C:\Users\BBO\Desktop\MAD Tools\MOSGateway\I...
Run
Cancel
Always ask before opening this file
While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust. What's the risk?

3. Click **Yes** to accept the licence agreement.


Microsoft Visual C++ 2005 Redistributable Package (x...
Please read the following license agreement. Press the PAGE DOWN key to see the rest of the agreement.
MICROSOFT SOFTWARE LICENSE TERMS
MICROSOFT VISUAL C++ 2005 RUNTIME LIBRARIES
These license terms are an agreement between Microsoft Corporation (or based on where you live, one of its affiliates) and you. Please read them. They apply to the software named above, which includes the media on which you received it, if any. The terms also apply to any Microsoft
* updates,
* supplements,
* Internet-based services, and
* support services
for this software, unless other terms accompany those items. If so, those terms apply.
By using the software, you accept these terms. If you do not accept
Do you accept all of the terms of the preceding License Agreement? If you choose No, Install will close. To install you must accept this agreement.
Yes
No

The package is being configured and installed.

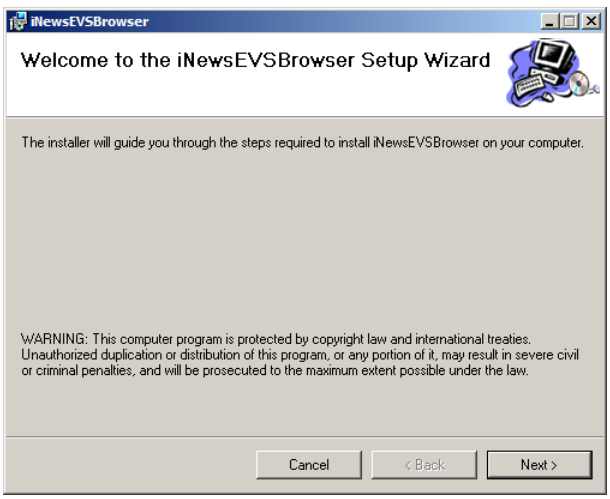

Microsoft Visual C++ 2005 Redistributable
Please wait while Windows configures Microsoft Visual C++ 2005 Redistributable
Cancel

1.3.4. Installing the IPMOSBrowser

To install the IPMOSBrowser on the NCS client PC, proceed as follows:

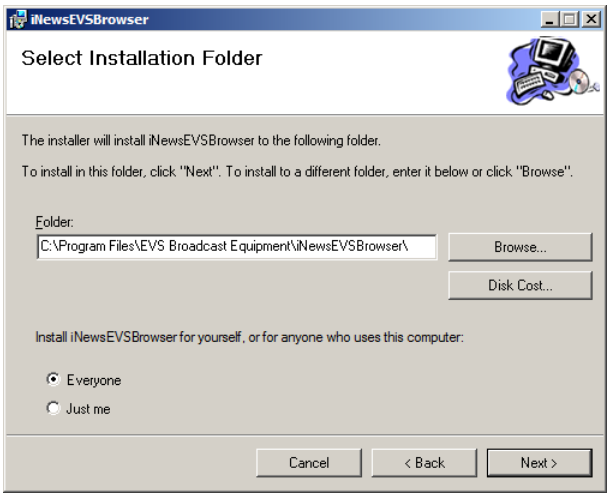
1. Launch the `EVSBrowser Setup.msi` file on the NCS client PC.

   The Setup Wizard appears.

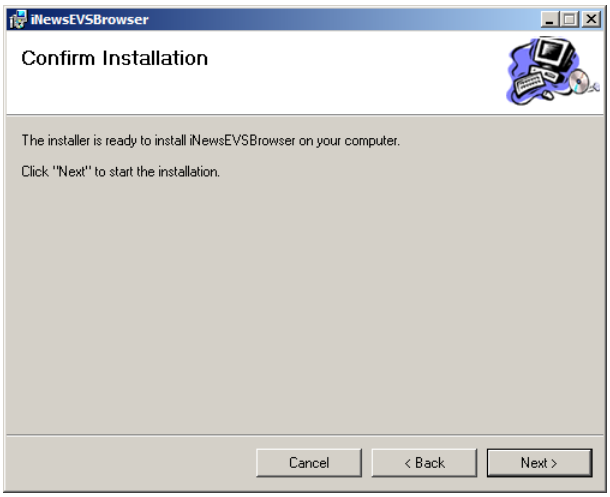

iNewsEVSBrowser
Welcome to the iNewsEVSBrowser Setup Wizard
The installer will guide you through the steps required to install iNewsEVSBrowser on your computer.
WARNING: This computer program is protected by copyright law and international treaties. Unauthorized duplication or distribution of this program, or any portion of it, may result in severe civil or criminal penalties, and will be prosecuted to the maximum extent possible under the law.
Cancel
< Back
Next >

2. Click **Next** to continue.

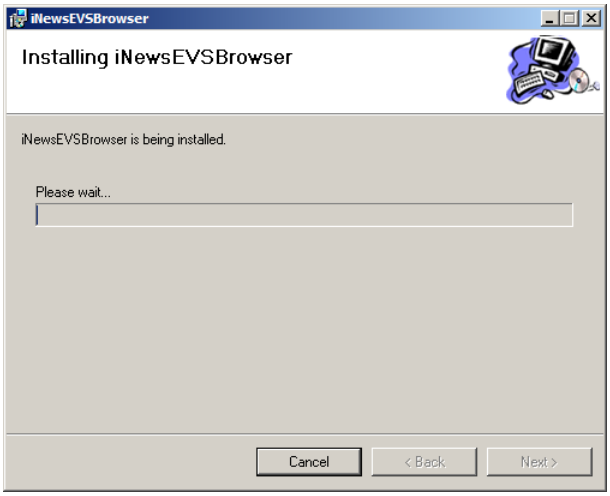
3. Select the desired installation folder. By default, `C:\Program Files\EVS Broadcast Equipment\iNewsEVSBrowser\` is selected, and then click **Next**.


iNewsEVSBrowser
Select Installation Folder
The installer will install iNewsEVSBrowser to the following folder.
To install in this folder, click "Next". To install to a different folder, enter it below or click "Browse".
Folder:
C:\Program Files\EVS Broadcast Equipment\iNewsEVSBrowser\
Browse...
Disk Cost...
Install iNewsEVSBrowser for yourself, or for anyone who uses this computer:
Everyone
Just me
Cancel
< Back
Next >

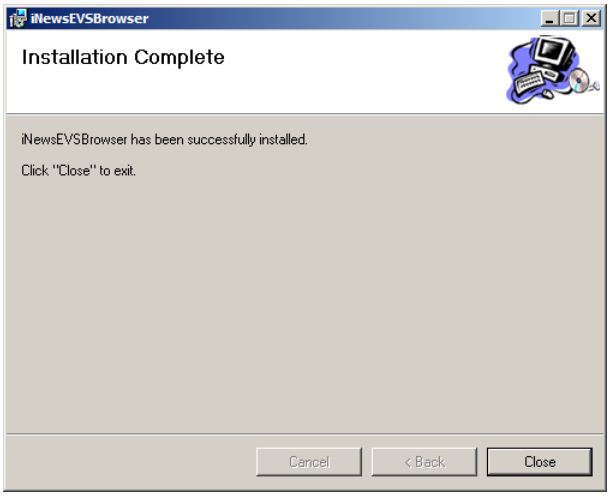
4. Click **Next** again to confirm the installation.


iNewsEVSBrowser
Confirm Installation
The installer is ready to install iNewsEVSBrowser on your computer.
Click "Next" to start the installation.
Cancel
< Back
Next >

The IPMOSBrowser is being installed.



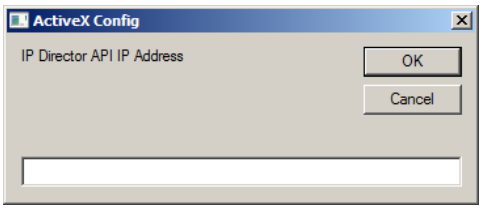
5. Once the installation has been completed, click **Close** to exit the Setup Wizard.



1.3.5. Registering the IPMOSBrowser

To register the IPMOSBrowser on the NCS client PC, proceed as follows:

1. Run the Visual Basic script `ActiveX-config.VBS` on the NCS client PC.
2. Enter the IP address of the machine that hosts the IPDirector API and click **OK**.



   The default MOS ID, i.e. EVS MOS, appears.
3. Change the MOS ID of IPMOSGateway and click **OK**.

   The script creates registry keys in the registry of the NCS client PC.
4. Run the EVSBrowserINews Placeholder 32 bit.reg or EVSBrowserINews Placeholder 64 bit.reg file on the NCS client PC.

   The following registry key is added: showPlaceHolder. This key should be activated to be able to display the Placeholder group box in the IPMOSBrowser.

1.3.6. Description IPMOSBrowser Registry Keys

Defined by the System Administrator

On a 32-bit machine the IPMOSBrowser configuration defined and stored by the system administrator can be found in the following registry keys:

- HKEY_LOCAL_MACHINE\SOFTWARE\EVS Broadcast Equipment\EVSBrowserINews\

On a 64-bit machine the IPMOSBrowser configuration can be found in the following registry keys:

- HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\EVS Broadcast Equipment\EVSBrowserINews\

Registry Key	Description	Default Value
localConfig	Defines if the configuration is saved in HKEY_LOCAL_MACHINE or in HKEY_CURRENT_USER.	1 (= enabled)
Login	IPDirector login used to connect to the API.	Administrator
MosID	MOS ID used in the drag-and-drop of an object from the IPMOSBrowser.	EVS MOS
Password	IPDirector password used to connect to the API.	evs
playerPath	Path of the MOS ActiveX Player used to preview the low-resolution clips. This path should be entered for the MOS ActiveX Player to work.	C:\Program Files\EVS Broadcast Equipment\MOS ActiveX Player\Player.exe
Endpoint	URL of the IPDirector API.	http://Local_Host:31016/IP-WS/IPWSNode_V01
showPlaceHolder	Show/hide the placeholder fields in the IPMOSBrowser.	1 (= enabled)
stylePath	Obsolete.	-

Stored by the IPMOSBrowser

On a 32-bit machine the IPMOSBrowser contextual information stored by the IPMOSBrowser itself can be found in the following registry keys:

- HKEY_CURRENT_USER\SOFTWARE\EVS Broadcast Equipment\EVSBrowserINews\

On a 64-bit machine the IPMOSBrowser configuration can be found in the following registry keys:

- HKEY_CURRENT_USER\SOFTWARE\Wow6432Node\EVS Broadcast Equipment\EVSBrowserINews\

Registry Key	Description
columnWidths	Width of the columns when the IPMOSBrowser was closed.
searchFields	Columns on which the search is performed.
storageFilterName	Last storage used when the IPMOSBrowser was closed.

1.3.7. Installing the IPMOSBrowser Configurator

Create the directory `C:\Program Files\EVS Broadcast Equipment\iNewsBrowser\Configurator` on the NCS client server and copy the `Configurator.exe` to this folder.

See section "Configuration" on page 40 for more information.

1.3.8. Installing EVSBrowserConfig.exe

Copy the `EVSBrowserConfig.exe` file and .pdb and .exe.config files to the directory `C:\EVS Broadcast Equipment\iNewsEVSBrowser\Configurator`.

Note
The EVSBrowserConfig.exe file should only be installed on an admin station.

1.3.9. (Optional) Installing Runasspc.exe

Copy the `runasspc.exe` file in the directory `C:\WINDOWS\system32`.

Install the `runasspc.exe` when you need to launch the Player window using a credential different than the local user. See section "Opening MOS ActiveX Player With a Different User Account" on page 39.

Note
The Runasspc application is not an EVS application.

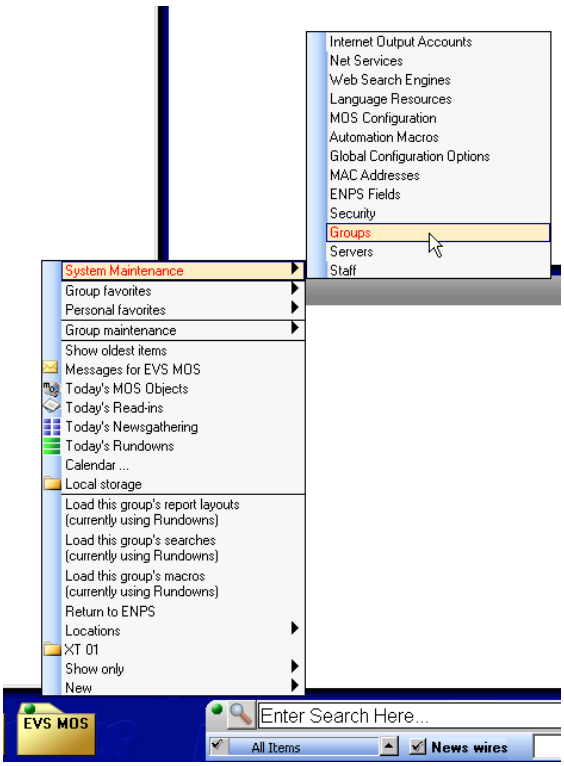
2. Configuration

2.1. Configuring for IPMOSGateway (ENPS Side)

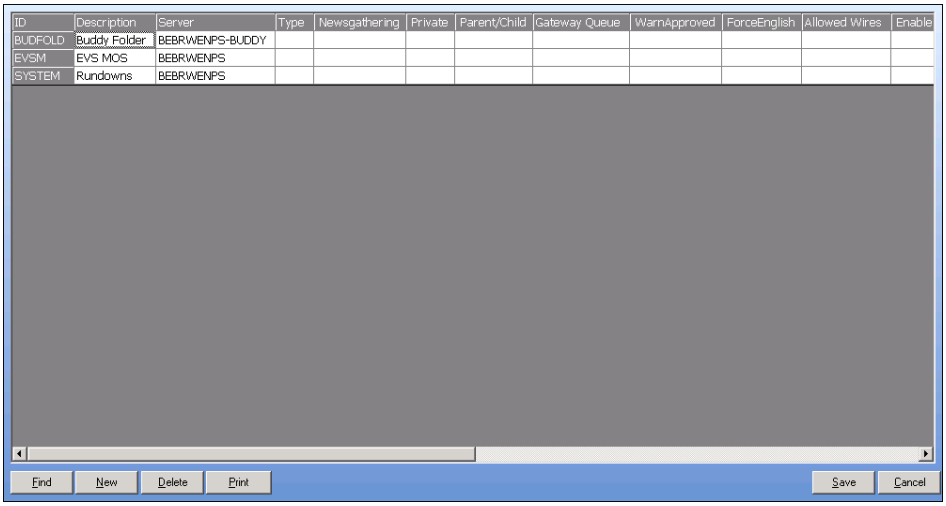
2.1.1. Creating a New Group/Program

To create a folder in ENPS in which MOS Object messages from IPMOSGateway will be stored, proceed as follows:

1. In ENPS, click the rover (green dot) of the fourth folder at the bottom of the ENPS desktop and select **System Maintenance** > **Groups**.

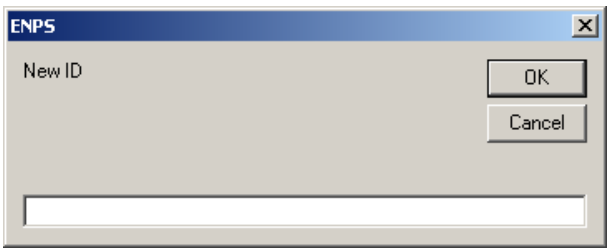


The window that allows you to manage groups in ENPS appears.



2. Click **New** to create a new group.

   The following dialog box appears.

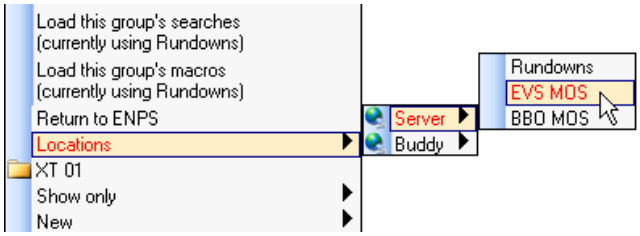


3. Enter a unique identifier for the group. Spaces are not allowed. For example, ‘EVSM’.
4. Enter the following information:
   - **Description**: Group name that will appear to the users. For example, ‘EVS MOS’.
   - **Server**: Local or remote Primary Server that will host the group.
5. After you set the group options click **Save**. Exit the ENPS client and restart it to see the new group.

   No other options need to be defined for the group.

2.1.2. Navigating to the Group

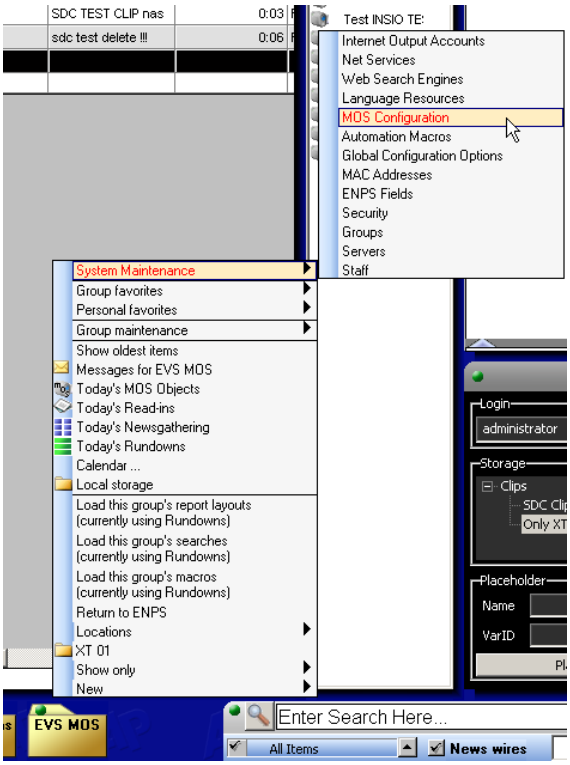
To navigate to the new group in ENPS, click the rover (green dot) of the fourth folder at the bottom of the ENPS desktop and select **Locations** Then, select the server name and the name of the group.



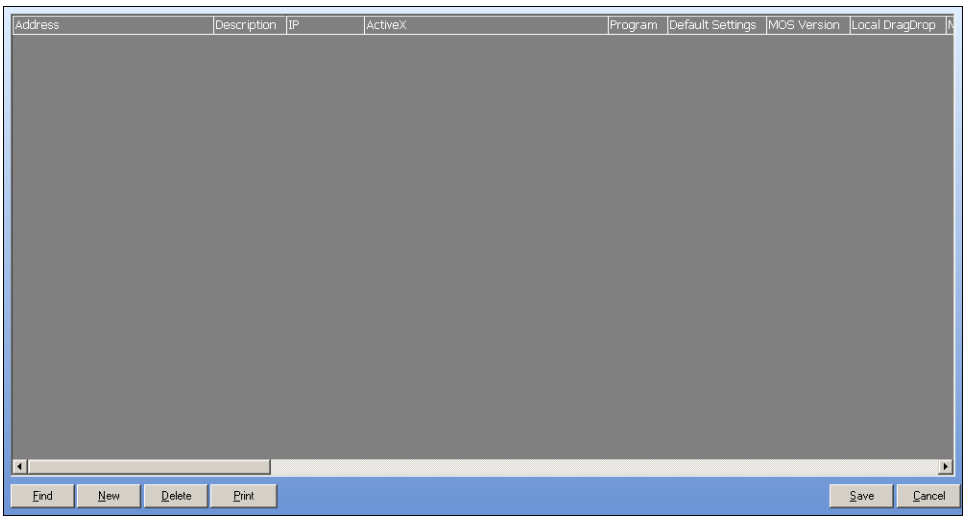
2.1.3. Adding IPMOSGateway and IPMOSBrowser

To add IPMOSGateway and the IPMOSBrowser to ENPS, proceed as follows:

1. In ENPS, click the rover (green dot) of the fourth folder at the bottom of the ENPS desktop and select **System Maintenance** > **MOS Configuration**.

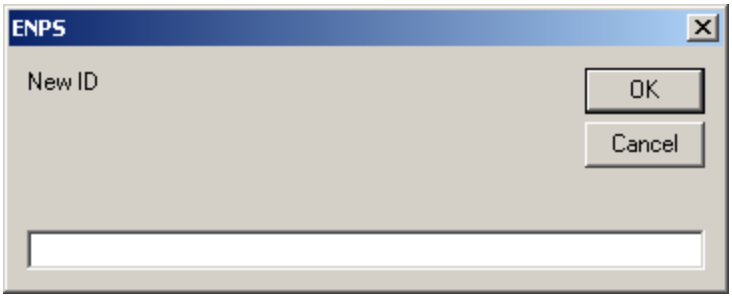


The configuration window appears.



2. Click **New** to create a new configuration line.

   The following dialog box appears.



3. Enter the name of the IPMOSGateway server and click **OK**.

   This name is case-sensitive (preferably upper case) and must follow the following naming convention: <family>.<machine>.<location>.<enterprise>.<mos>

   Both `<location>` and `<enterprise>` are optional.

   For example, 'EVSIPDIR.EVS.BXL.SYSTEM1.MOS'.

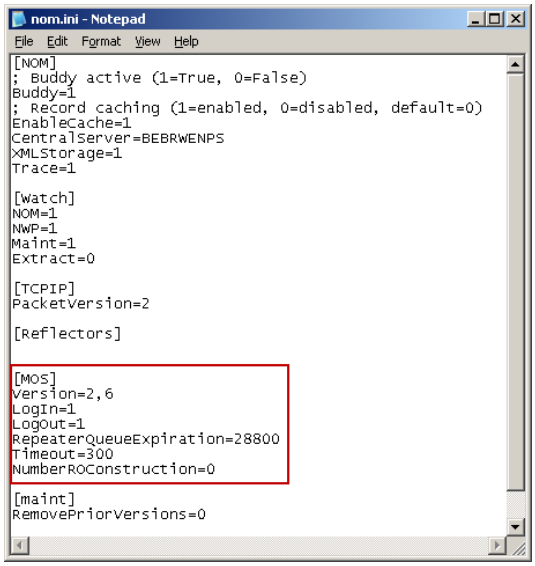
4. Enter the following information:
   - **Description**: Description of your IPMOSBrowser as it will appear in ENPS menus, for example 'IPDirector'.
   - **IP**: IP address of the IPMOSGateway server.
   - (optional) **ActiveX**: Name of the IPMOSBrowser. This name can be found in the registry. By default, this is 'MOSBROWSERMFC.MosBrowserMFCCtrl.1'.
   - **Program**: Name of the Group/Program Folder within ENPS in which MOS Object messages will be stored. For example: Define it to the 'EVSM' instance. See section "Creating a New Group/Program" on page 10.
   - **MOS Version**: The version of the MOS protocol to use with this device, i.e. version 2.8.
   - **Auto Create**: Determines whether IPMOSGateway is allowed to create MOS objects automatically. This setting must be enabled for a Rundown's AutoCreate feature to work. This should be disabled with IPDirector 5.
   - **Story Send**: Determines if IPMOSGateway is included in a list of MOS StorySend devices. This setting should be enabled. The **MOS Story Send** field must be enabled in the Rundown by the System Administrator.
   - **Local Drag/Drop** : This setting should typically be off.
5. Click **Save** to save your changes.
6. Restart the ENPS client and the News Object Manager any time you add a MOS entry.

2.1.4. Modifying the MOS Timeout

If an active link between ENPS and IPMOSGateway times out due to no response from IPMOSGateway, MOS control is deactivated, a DISCONNECTED indicator appears in the MOS Status column of a Rundown, and the Rundown is queued for a complete refresh when the connection is re-established.

The timeout is configurable in the `[MOS]` section of the `NOM.INI` file in the NOM folder on the server. Timeout values can be assigned to specific devices. The timeout values for specific MOS servers are set in the `MOS Timeout` section of the `NOM.INI` file.

Change the value to 300 (seconds).



Define this also on the Buddy Server when using a Buddy Server.

2.2. Configuring for IPMOSGateway (iNews Side)

2.2.1. Editing iNews MOS Gateway Configuration File

Introduction

The iNews MOS Gateway must be configured with information about IPMOSGateway that will connect to it. This is done by editing the iNews MOS Gateway configuration file, which is installed on the MOS Gateway Server.

The configuration file, which is named `mosconfig.xml`, is placed, by default, in the following location: `C:\Program Files\Avid\MOSGateway`.

While MOS Gateway is running, the configuration file is locked. Before editing the configuration file, ensure that the iNews MOS Gateway is stopped.

The configuration file can be edited in an editor that can process Unicode files, for example Windows Notepad.

The <listDevices> element of the iNews MOS Gateway configuration file contains device-specific configurations. It contains one or more <mosDevice> elements. The <mosDevice> element contains configuration settings that are specific to a particular MOS device.

Parameters

<Names> Group

In the <Names> group you have to enter the following information:

Element	Information
<mos></mos>	The MOS ID of IPMOSGateway. By default, this is 'EVS MOS'.
<amcp></amcp>	The name assigned to IPMOSGateway in iNews. It is the same name that appears in the SYSTEM.MOS-MAP story located in the iNEWS database.
<network></network>	The network name of the server that hosts IPMOSGateway.

<roChannels> Group

In the <roChannels> group you have to map the names of iNEWS channels used to the channel names accepted by IPMOSGateway. The following information has to be entered:

Element	Information
<iNewsChannel></iNewsChannel>	Name assigned to a channel in iNews.
<MosDevChannel></MosDevChannel>	Channel name accepted by IPMOSGateway.

<handlesEmptyStories> Group

Set the <handlesEmptyStories>YES/NO</handlesEmptyStories> group to YES, to send empty stories to see virtual elements in the IPDirector playlist.

<handlesRoStoryMoveMultiple> Group

Set the <handlesRoStoryMoveMultiple>YESNO</handlesRoStoryMoveMultiple> group to NO.

<handlesRoItemLevelCommands> Group

Set the <handlesRoItemLevelCommands>YESNO</handlesRoItemLevelCommands> group to NO.

<prependPageNumber> Group

Set the <prependPageNumber>YESNO</prependPageNumber> group to YES. The iNEWS story's page number is prepended to the story slug.

<prependSeparator> Group

Enter a character used to separate the story slug and the page number. The default is a hyphen.

<prependStringForEmptyPageNumber> Group

Enter the character string which is used in place of an empty page number. The default is 'NO PAGE'.

<sendRoCreateOnStartLoad> Group

Set the <sendRoCreateOnStartLoad>YESNO</sendRoCreateOnStartLoad> group to NO.

<handlesSpecMosReqAll> Group

Set the <handlesSpecMosReqAll>YESNO</handlesSpecMosReqAll> group to YES.

<ignoreItemStatusInRoAck> Group

Set the <ignoreItemStatusInRoAck>YESNO</ignoreItemStatusInRoAck> group to NO.

<handlesRoListAll28> Group

Set the <handlesRoListAll28>YESNO</handlesRoListAll28> group to NO.

<handlesRoStorySendNSMLX> Group

Set the <handlesRoStorySendNSMLX>YESNO</handlesRoStorySendNSMLX> group to NO.

<retryTimeout> Group

Set the <retryTimeout> group to '0'.

<statusTranslations> Group

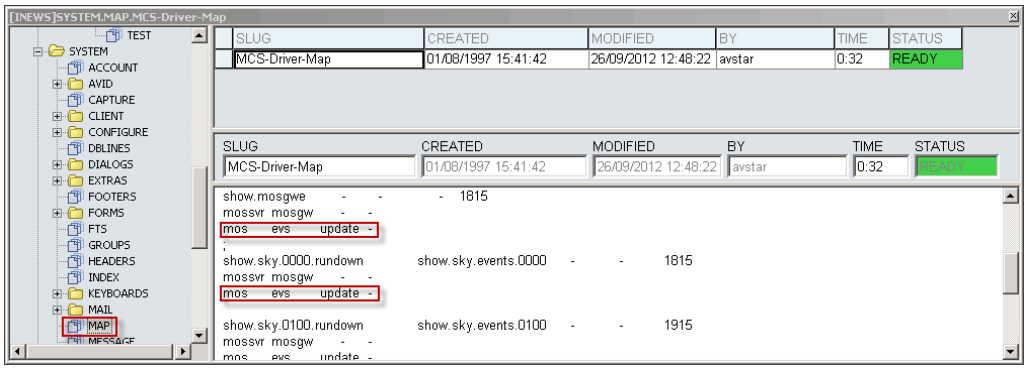
The iNEWS Server expects one of ten event status codes to be returned as the status of a MOS item. Since the MOS Protocol specifies a string as the status of a MOS item in the roItemStat MOS command, MOS Gateway must map these strings to the iNEWS event status codes.

Furthermore, IPMOSGateway uses different strings to mean the same concept. The <statusTranslations> group specifies which string to map to each event status code.

iNews Event Status Code	IPMOSGateway Event Status Code
<statusUnknown>	UNKNOWN
<statusUnavailable>	NOT READY
<statusUnavailable>	DELETED
<statusAvailable>	READY
<statusAvailable>	NEW
<statusCued>	CUED
<statusPlaying>	PLAY
<statusPaused>	PAUSE
<statusStopped>	STOP
<statusTensionReleased>	-
<statusPlayRequested>	-
<statusRewinding>	-
<statusTranslations>	-

2.2.2. Adding IPMOSGateway to System.MAP

When an entry is made of a particular show in the system.map story, the IPMOSGateway has to be added to the list of production devices.



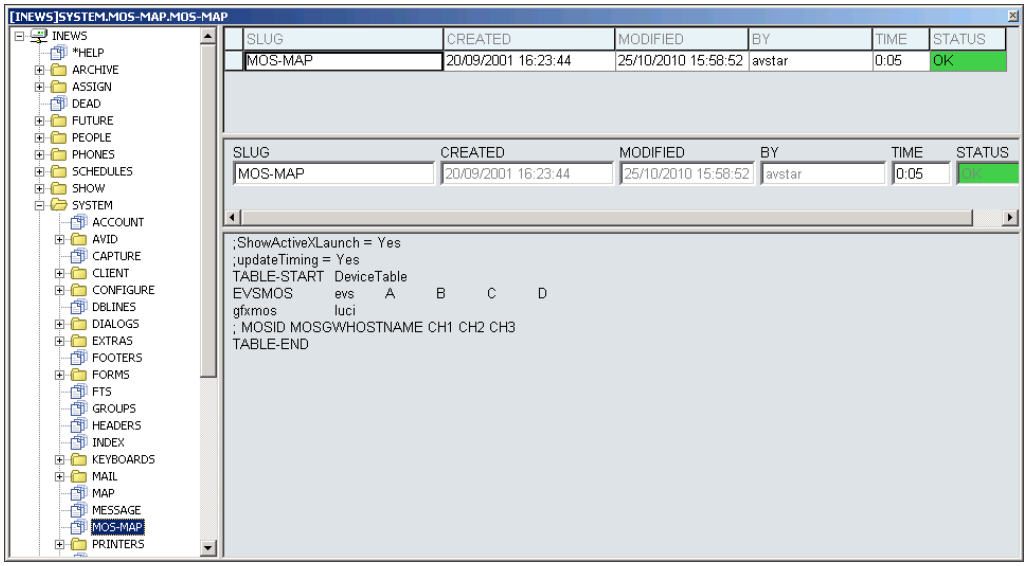
The following information has to be added:

- type of production device = mos
- name of the production device = name that corresponds to the value entered in mosconfig.xml file in the <amcp> tag.
- update = whether the monitor updates the playlist of IPMOSGateway.

2.2.3. Adding IPMOSGateway to the SYSTEM.MOS-MAP Story

The iNEWS system must associate the MOS ID of IPMOSGateway with an iNEWS device name. This is because machine control commands in a story must be associated with an iNEWS device name, so the monitor server can load them to IPMOSGateway. The iNEWS Workstation uses the association to create machine control commands from MOS items that it receives from IPMOSBrowser associated with IPMOSGateway.

The iNEWS system administrator creates the association by creating a table in the SYSTEM.MOS-MAP story, located in the System directory of the iNEWS database.



The table contains at least two columns of names separated by white space. The first column is the MOS ID of IPMOSGateway, by default EVS MOS. This must match the name that appears for IPMOSGateway in the MOS Gateway configuration file between the <mos> and </mos> tags. See section "Editing iNews MOS Gateway Configuration File" on page 14.

The second column is an iNEWS device name, which can have no more than eight characters. This must match the name that appears for that device in the MOS Gateway configuration file between the <amcp> and </amcp> tags. See section "Editing iNews MOS Gateway Configuration File" on page 14.

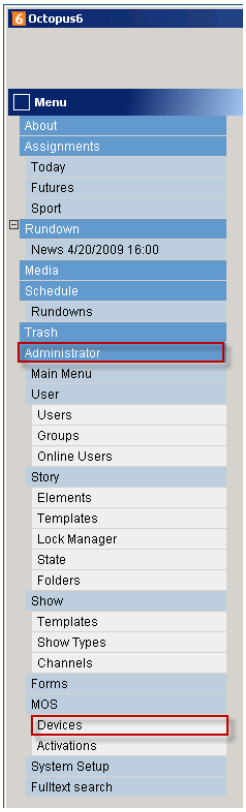
All available channels for IPMOSGateway must be listed in additional columns on the line for IPMOSGateway.

2.3. Configuring for IPMOSGateway (Octopus Side)

2.3.1. Adding IPMOSGateway to Octopus

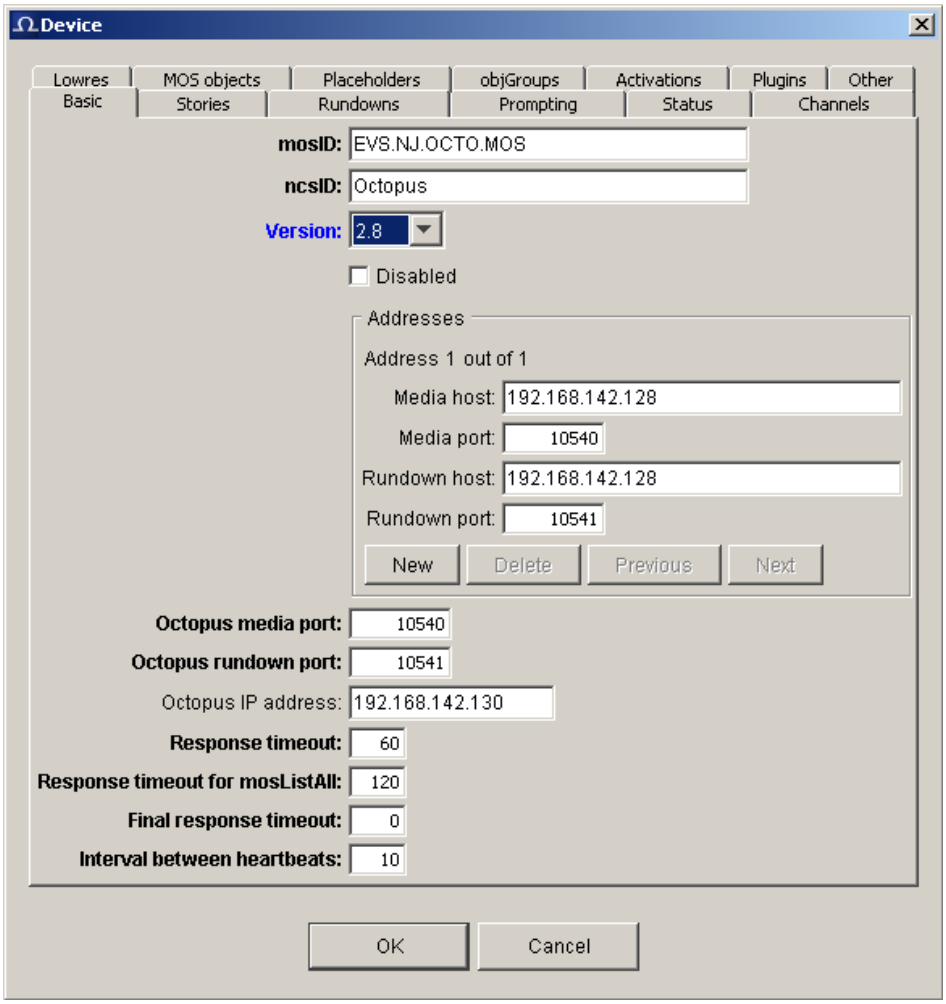
To add IPMOSGateway to Octopus, proceed as follows:

1. On the left menu, click **Administrator > MOS > Devices**.

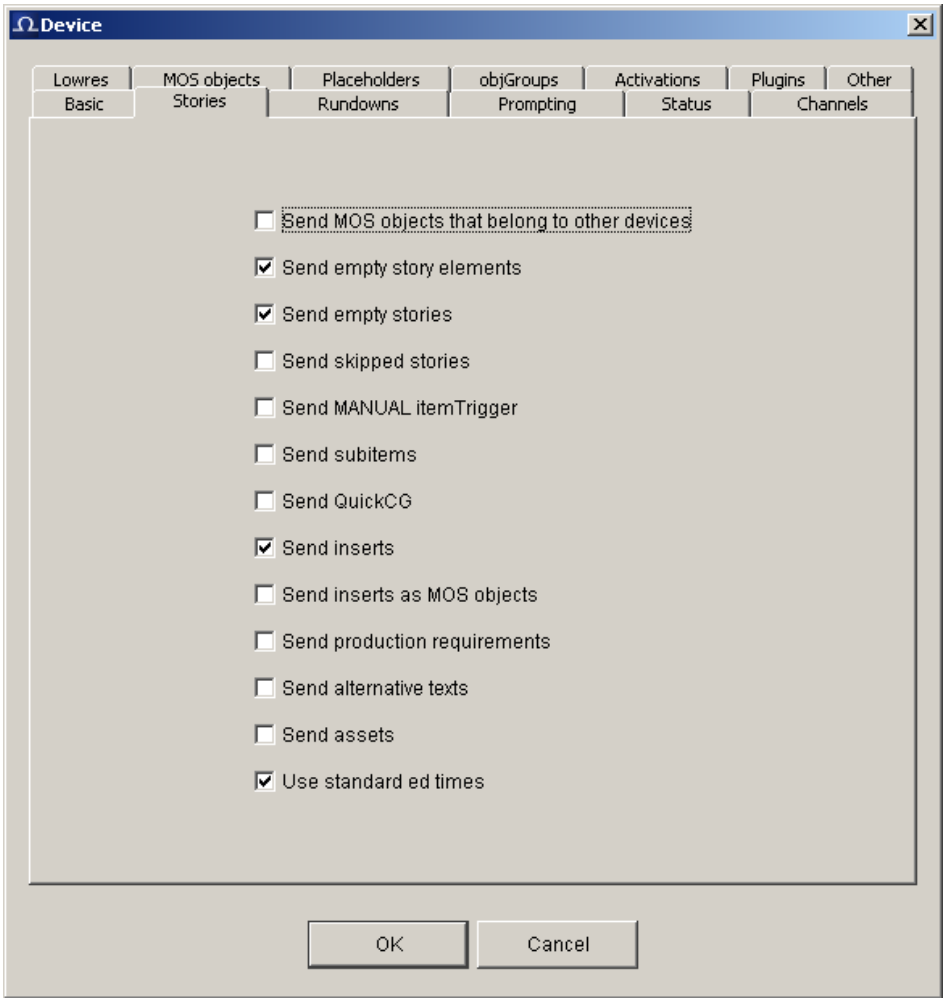


2. In the Devices pane, click **New**.

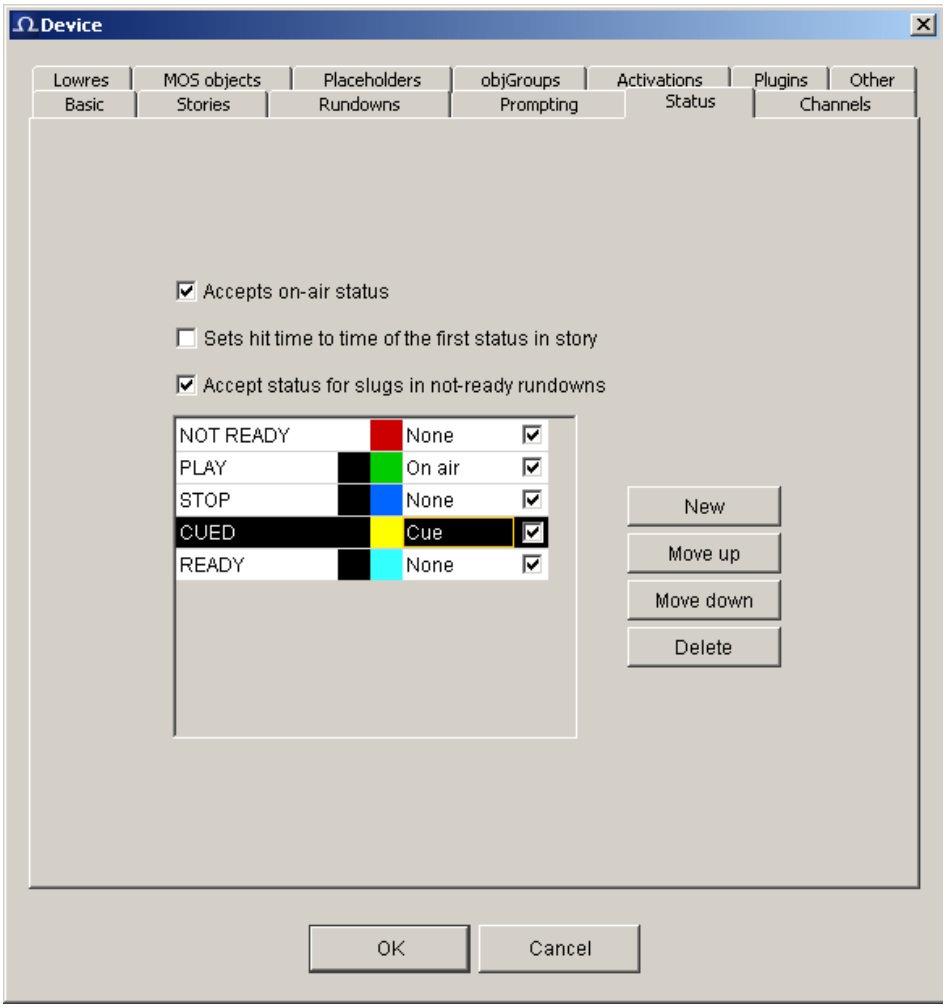
   A dialog box appears that allows you to add a new device to Octopus.



3. In the Basic tab, enter the following information:
   - IPMOSGateway MOS ID in the **mosID** field. By default 'EVS MOS'.
   - MOS protocol version in the **Version** field. By default, version 2.8.
   - IP address of the server that hosts IPMOSGateway in the **Media Host** and **Rundown Host** field.
4. In the Stories tab, select the following check boxes:
   - **Send empty story elements**: If selected, empty items are sent in rundown create messages.
   - **Send empty stories**: If selected, stories with no visible items are sent to IPMOSGateway.
   - **Send inserts**: If selected, a proprietary message is sent for commercial breaks.
   - **Use standard ed times**: If checked, Octopus uses standard MOS protocol meaning for itemEdStart and itemEdDur, otherwise the meaning is proprietary.

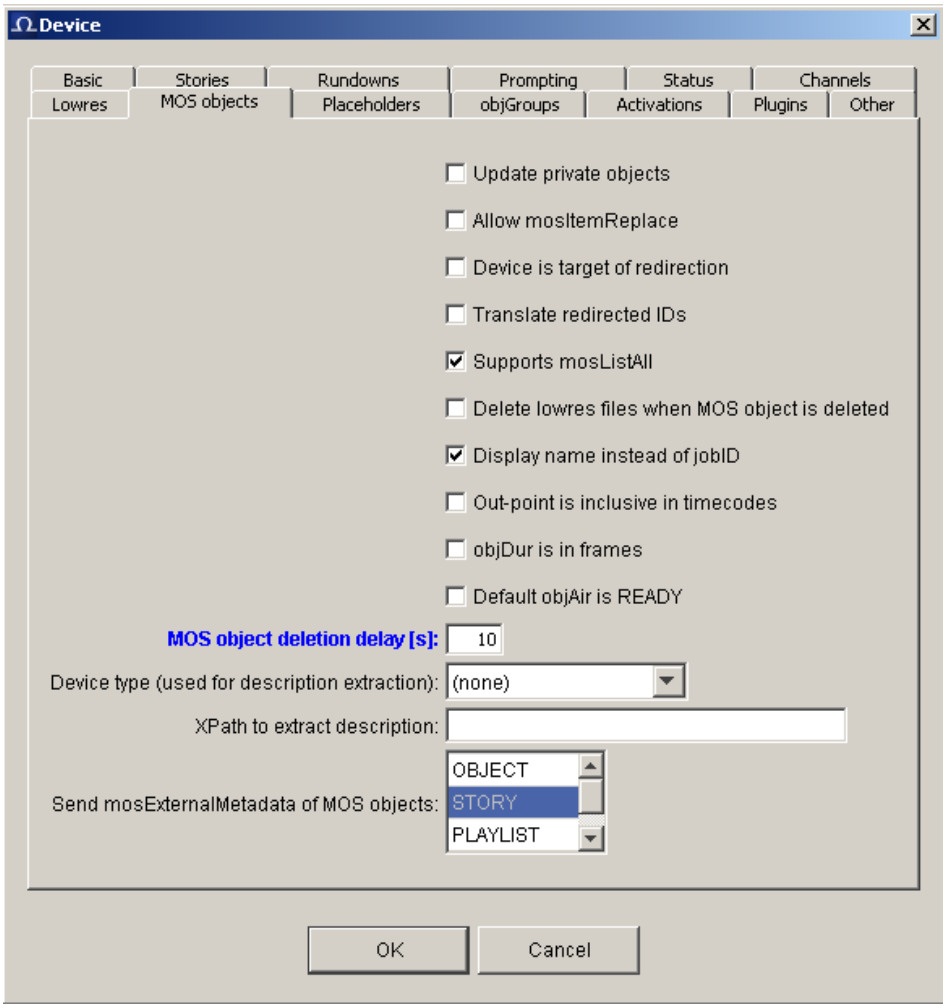


5. In the Status tab, do the following:
   - Select the **Accepts on-air status** check box. If selected, Octopus accepts <roItemStat> message from IPMOSGateway.
   - Select the **Accept status for slugs in not-ready rundowns** check box. If selected, <roItemStat> is accepted even for stories in rundowns not marked as ready-for-air.
   - Add all possible values for roItemStat message into the first column by clicking the **New** button and then pressing **F2** to edit the field. Clicking on the coloured squares allows selection of a background and text colour for slugs with this status to be displayed. The Octopus status column has three possible values **None**/**OnAir**/**Cue**. Press **F2** to edit the field.

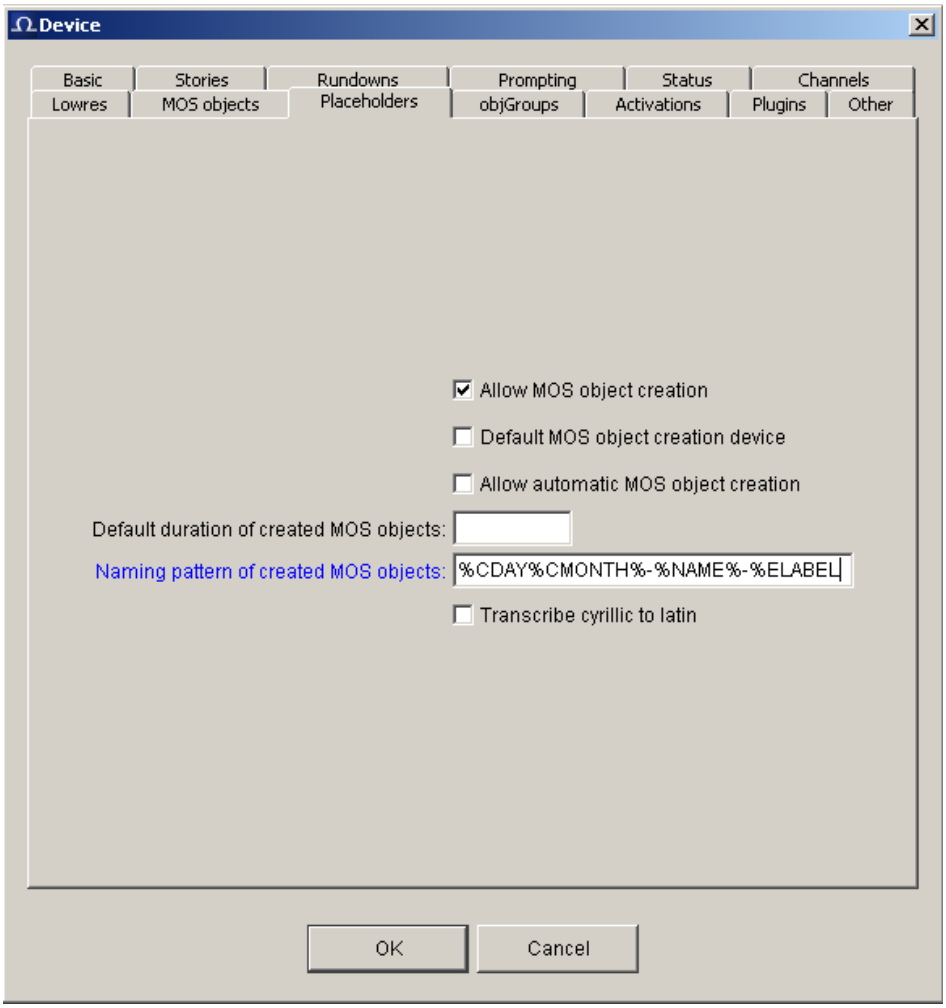


6. In the MOS Objects tab, select the following check boxes:
   - **Supports mosListAll**:If selected, this will allow IPMOSGateway to send MOS object descriptions in a format similar to mosObj messages from the MOS to the NCS.
   - **Display name instead of jobID**: Proprietary settings.

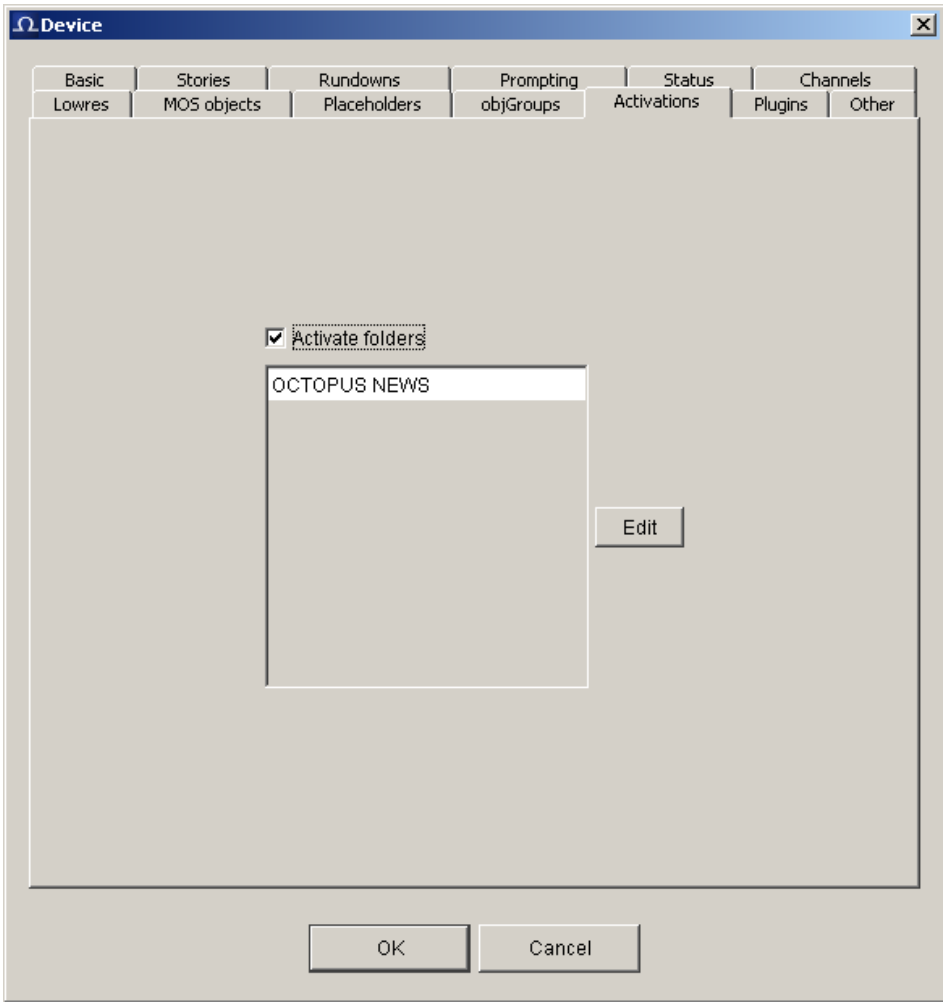
   In the **MOS object deletion delay(s)** field, enter '10'.



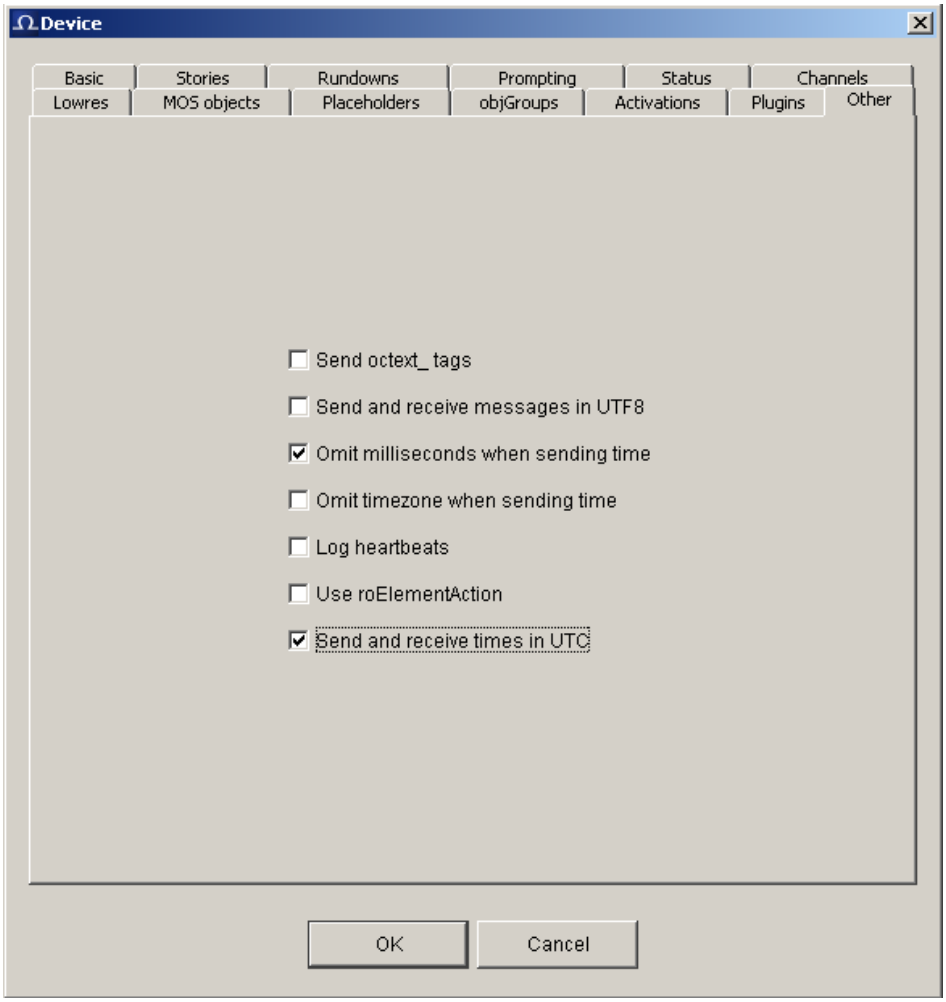
7. In the Placeholders tab,do the following:
   - Select the **Allow MOS object creation** check box: If selected, the support for mosObjCreate message is set in the scripts.
   - In the **Naming pattern of created MOS objects** field, enter the automatic naming pattern for placeholders. By default, this is %CDAY%CMONTH-%NAME%-%ELABEL.



8. In the Activations tab, select the check box **Activate folders** to allow manual activation of stories in story folders.



9. In the Other tab, select the following check boxes:
   - **Omit milliseconds when sending time**: If checked, milliseconds of timestamps are not sent by Octopus.
   - **Send and receive time in UTC**: Enables/disables UTC or local time.



10. Click **OK** to save your settings.

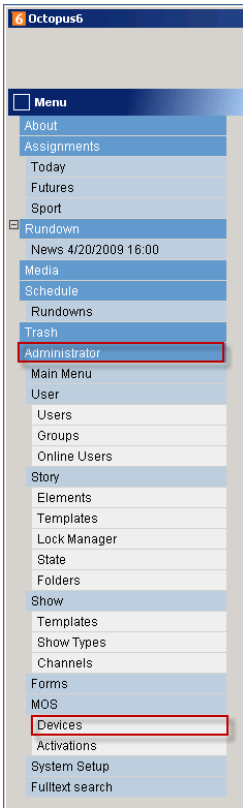
    The dialog box closes. IPMOSGateway is added to the list of devices.

11. A restart of the MOS agent service is required after changing the configuration of a MOS device in the Octopus client.

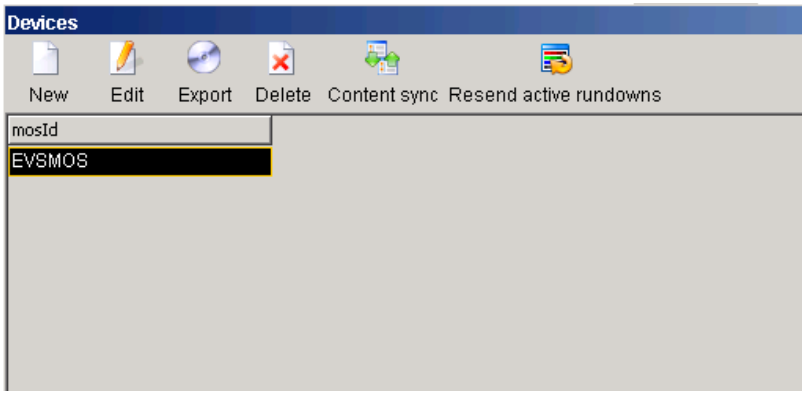
2.3.2. Adding the IPMOSBrowser to Octopus

To add the IPMOSBrowser to Octopus, proceed as follows:

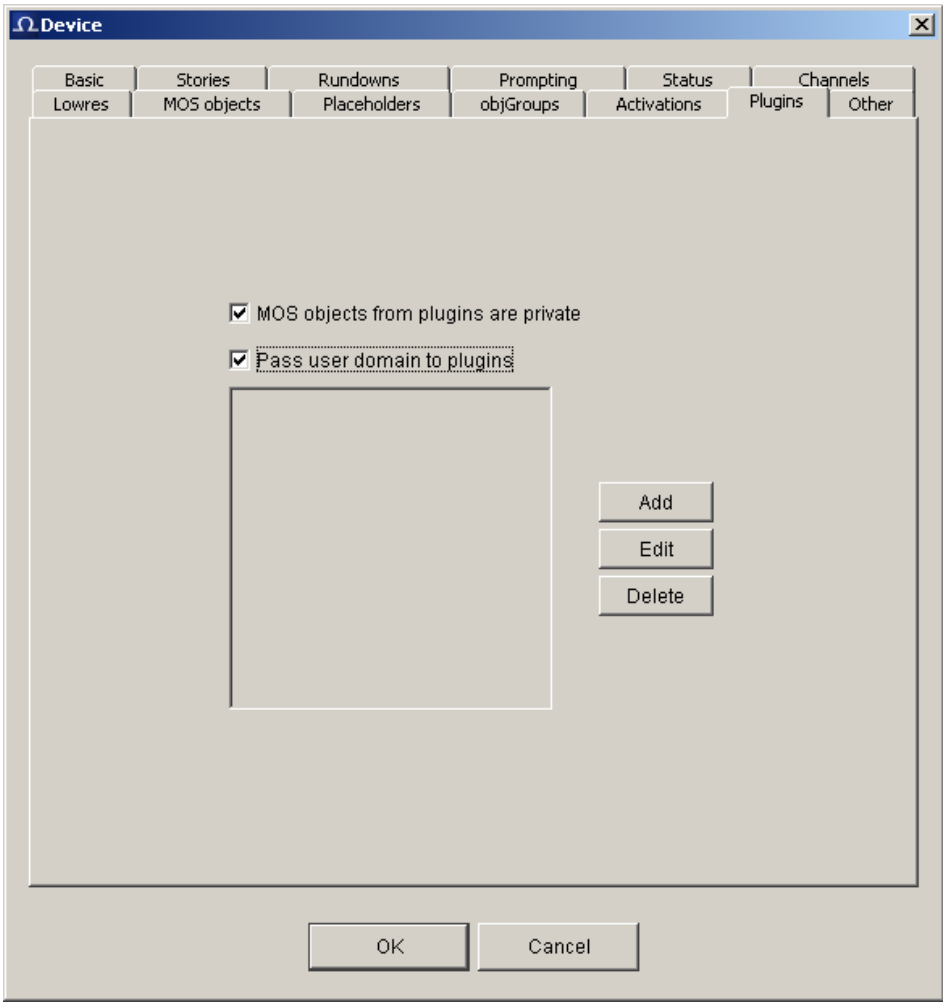
1. On the left menu, click **Administrator > MOS > Devices**.



2. In the Devices pane, double-click the entry you created for IPMOSGateway.

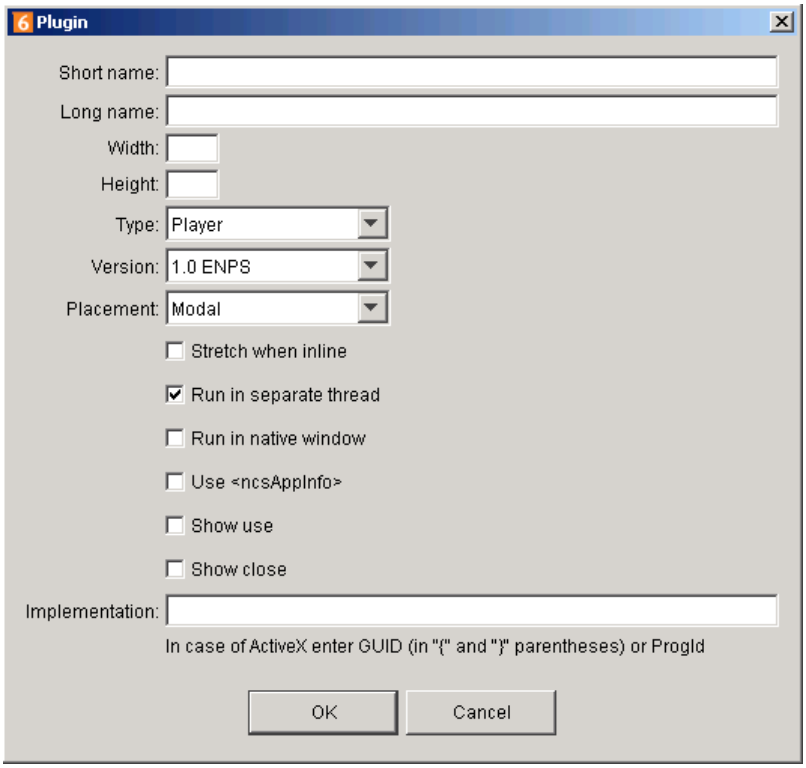


3. Open the Plugins tab.



4. Select the **Pass user domain to plugins** check box.
5. Click the **Add**button.

   A dialog box appears that allows you to add the IPMOSBrowser.



6. Enter the following information:
   - **Short name**: User preference (e.g. IP Director)
   - **Long name**: User preference (e.g. EVS IP Director Browser)
   - **Width**: Width of the IPMOSBrowser pane in Octopus. By default, 800.
   - **Height**: Height of the IPMOSBrowser pane in Octopus. By default, 600.
7. Select the following data in the following fields:
   - **Type**: **Browser**
   - **Version**: **2.8**
   - **Placement**: **Horizontal split**
8. Select the following check boxes:
   - **Show use**
   - **Show case**
9. In the **Implementation** field, enter the GUID of the IPMOSBrowser. By default, MOSBROWSERMFC.MosBrowserMFCCtrl.1.
10. Click **OK**.

2.3.3. Editing the MOSAgent.xml File

Edit the MOSAgent.xml file in the folder `C:\octopus\services\MOSAgent` and change the MOS ID to whatever MOS ID you configured in Octopus client.

```
<service>
    <id>OctopusMOSAgentService</id>
    <name>Octopus MOS Agent</name>
```

```
    <description>Octopus6 MOS Agent</description>
    <mainClass>octopus.agents.mosagent.Main</mainClass>
    <javaArguments>-Xms128m -Xmx400m -XX:MinHeapFreeRatio=10 -
     Djava.class.path=MOSAgent.jar</javaArguments>
    <arguments>O6SERVER EVS.NJ.OCTO.MOS octopus</arguments>
    <javaHome>C:\Java\jre6</javaHome>
</service>
```

Restart the MOSAgent service and devices should be connected. Logs of the MOSAgent can be found in `C:\octopus\services\mosagent\log\<date>`.

2.4. Configuring the IPMOSBrowser

2.4.1. Opening Ports in the Firewall

The following ports need to be opened on the firewall of the NCS client PCs for the IPMOSBrowser and the MOS ActiveX Player to operate:

- for the IPMOSBrowser: TCP port 31016
- for the MOS ActiveX Player: TCP port 445

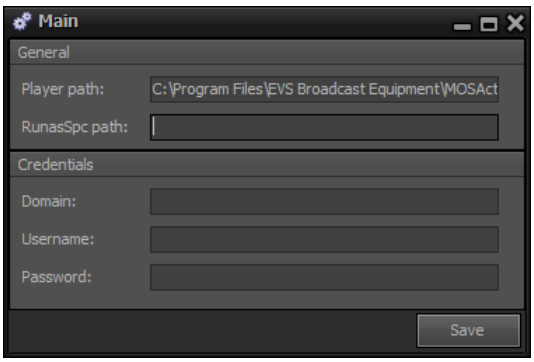
The IPMOSBrowser uses the IPDirector API protocol. The MOS ActiveX Player uses the CIFS protocol.

2.4.2. Entering MOS ActiveX Player Path

To enter the path to the `Player.exe` file of the MOS ActiveX Player, proceed as follows:

1. In the directory `C:\EVS Broadcast Equipment\iNewsEVSBrowser\Configurator`, double-click the file `EVSBrowserConfig.exe`.

   The following window appears.



2. In the **Player Path** field, enter the path to the `Player.exe` of the MOS ActiveX Player. Note: The name of the Player.exe should be in the path. For example, `C:\Program Files\EVS Broadcast Equipment\Software Player\Player.exe`.

3. Click the **Save** button.

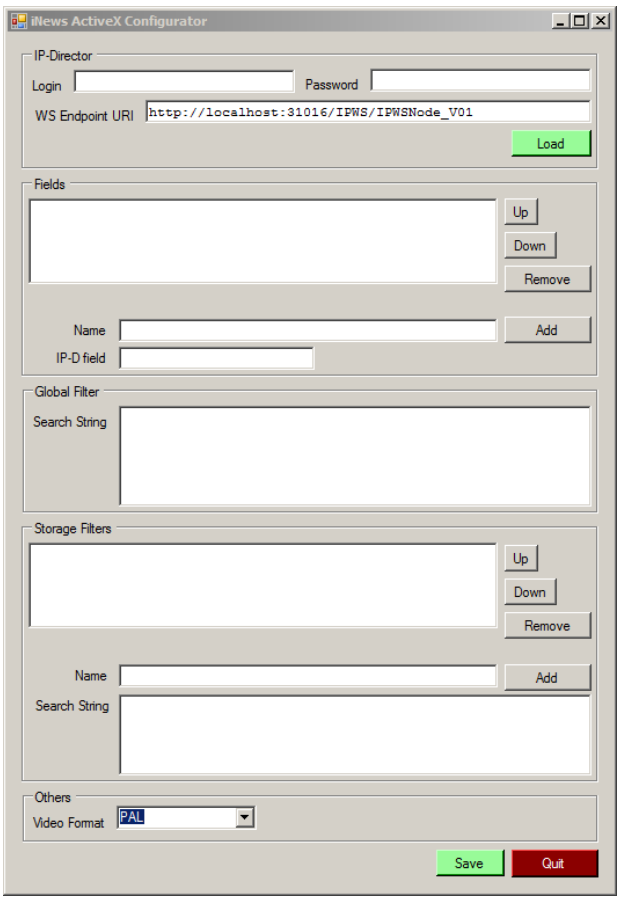
   The path will be stored in the registry.

2.4.3. Launching the IPMOSBrowser Configurator

To launch the IPMOSBrowser, proceed as follows:

1. In the directory `C:\EVS Broadcast Equipment\iNewsEVSBrowser\Configurator`, double-click the `Configurator.exe` file.

   The IPMOSBrowser Configurator window opens.



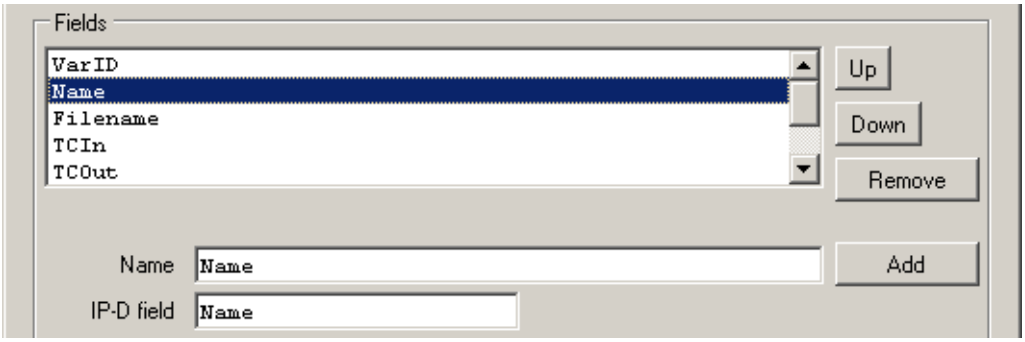
2. Enter a valid IPDirector login and password.
3. Replace the localhost of the WS endpoint by the IP address of the IPDirector API.
4. Click on **Load**.

   If the **Load** returns an error the first time, this is normal as the initial settings have not yet be created in the IPDirector database. After the error, click **Load** again.
5. Click on **Save**.

2.4.4. Adding Columns

Introduction

The Fields area in the Clips tab displays the columns shown in the IPMOSBrowser when you select the Clips node.



Each column can have its own name and is linked to a clip metadata field available through the IPDirector API.

IPDirector Clip Metadata

The table below gives an overview of the available clip metadata in IPDirector.

Name	Description	Datatype	Accepted Values
AspectRatio	The aspect ratio.	Enumeration	• N_A • AR_4_3_Letter_Box • AR_16_9 • AR_4_3_CROP • AR_1_1 • AR_221_1
AssetID	The guid of the Asset which the clip is part.	String	
AudioType	The audio type of the clip.	Enumeration	• N_A • No_Audio • Mono • Stereo • Dual_Stereo • _8_Mono • _16_Mono

Name	Description	Datatype	Accepted Values
CameraPref	The camera preference of the clip.	String	
CreatedInIPEdit	Indicates if the clip was created with IPEdit.	Boolean	• False • True
CreationDate	The creation date of the clip.	Date Time	
Duration	The duration of the clip.	String	
FileName	The file name for the File Clip.	String	
FillandKeyType	The type of Fill and Key.	Enumeration	• Normal • Fill • Key
FullFilePath	The full file path for the File clip.	String	
GangID	The guid of the gang group.	String	
ID	The guid of the clip element	String	
InBins	The list of bins where the clip is.	List	
KW	The keyword of the clip.	Keyword List	
Level	The interest level for a clip.	Unsigned Character	
LimitDuration	The limit duration of the clip.	String	
LimitIn	The limit in of the clip.	String	
LimitInDate	The limit in date of the clip.	Date Time	
LimitOut	The limit out of the Clip.	String	
LimitOutDate	The limit out date of the clip.	Date Time	

Name	Description	Datatype	Accepted Values
LsmID	The Lsm ID of the clip (i.e. 123A/04 - means Page 1 - Bank 2 - Clip 3 - Camera A on Server 04).	String	
LsmSerialNum	The serial number of the server where the clip is online (i.e. 12340).	Integer	
LTCIn	The LTC In of the clip.	String	
LTCInDate	The LTC In date of the clip.	Date Time	
LTCLimitIn	The LTC Limit In of the clip.	String	
LTCLimitInDate	The LTC Limit In date of the clip.	Date Time	
LTCLimitOut	The LTC Limit out of the clip.	String	
LTCLimitOutDate	The LTC Limit Out date of the clip.	Date Time	
LTCOut	The LTC Out of the clip.	String	
LTCOutDate	The LTC Out of the clip.	Date Time	
Master Asset	The VBI of the clip.	Boolean	• False • True
Material ID	The material ID of the clip (8 char).	String	
Metadata	The metadata values of the clip.	Metadata Object Values	
Mode	The mode of the clip.	Enumeration	• Hi • Lo • Mixed
Name	The name of the clip element (limited to 64 characters).	String	

Name	Description	Datatype	Accepted Values
Owner	The owner of the clip.	String	
PrimaryTCType	The type of the primary TC (Source).	Primary TC	
Protected	The protected status of the clip.	Enumeration	• NotProtected • IpdProtected • AvspProtected • VdcpProtected • OdeticsProtected • LsmProtected • XFileProtected • GBitProtected • Unknown • SonyDD35P-rotected
PurgeDate	The purge date of the clip.	Date Time	
SLSMType	The SLSM type.	Enumeration	• Undefined • Normal • SLSM50 • SLSM33
SourceName	The name of the source of the clip.	String	
StorageName	The name of the storage of the clip.	String	
TapeID	The tape ID of the clip.	String	
TCIn	The TC In of the clip.	String	
TCInDate	The TC In date of the clip.	Date Time	
TCOut	The TC Out of the clip.	String	
TCOutDate	The TC Out date of the clip.	Date Time	

Name	Description	Datatype	Accepted Values
Type	The type of the clip.	Enumeration	• Undefined • Xt • File • Stream
UmID	The UmID of the clip (must be unique on the XNet network) (8 char)	String	
UserLimitIn	The UserLimitIn of the clip.	String	
UserLimitInDate	The UserLimitInDate of the clip.	Date Time	
UserLimitOut	The UserLimitOut of the clip.	String	
UserLimitOutDate	The User-LimitOutDate of the clip.	Date Time	
UserTCIn	The UserTCIn of the clip.	String	
UserTCInDate	The UserTCInDate of the clip.	Date Time	
UserTCOut	The UserTCOut of the clip.	String	
UserTCOutDate	The UserTCOutDate of the clip.	Date Time	
VarID	The VarId of the clip.	String	

Name	Description	Datatype	Accepted Values
VBI	The VBI of the clip.	Boolean	• True • False
VideoBitrate	The video bitrate of the clip.	String	
VideoCodec	The video codec of the clip.		• N_A DNxHDLo • N_A DNxHDLo • DV_25 • DVCPro_50 • DVCPro_HD • IMX • MJPeg • MJPeg_LoRes • Mpeg1 • Mpeg2 • Mpeg2_I_Field • MPeg2_I_Frame • P2Proxy • ProRes_422_SQ • Unknown • Windows_Media • XDCAM_HD • XDCAM_Sub • H_264 • AVC_INTRA • MJPegEVS • DNxHD_8b_HI • ProRes_422_HQ • DVCPro_25 • Mpeg4 • DNxHD_10b_HI • ProRes_422_LT • XDCAM_HD_EX

Adding a Column

To add a column, proceed as follows:

1. In the **Name** field, specify the column you want to be displayed in the IPMOSBrowser.

2. In the **IP-D** field, enter the name of the clip metadata field to which the column is linked. This value must exactly match the name of the clip metadata field in the IPDirector API (**case sensitive**). For example, enter 'Duration' in the **Name** field and 'Duration' in the **IP-D field**.
3. Click on the **Add** button.
4. Click on the **Save** button and reload the IPMOSBrowser to apply the changes.

   In the IPMOSBrowser a new column with the heading **Duration** will be added.

Deleting a Column

To delete a column, select it from the list and click the **Remove** button. Click on the **Save** button and reload the IPMOSBrowser to apply the changes.

Reordering a Column

To reorder a column, select it from the list and click the **Up** or **Down** button. Click on the **Save** button and reload the IPMOSBrowser to apply the changes.

2.4.5. Adding a Global Filter

Introduction

The Global filter is the filter applied to the whole IPMOSBrowser and then to the Clips node. The global filter rules are the same as for the storage filters.

Procedure

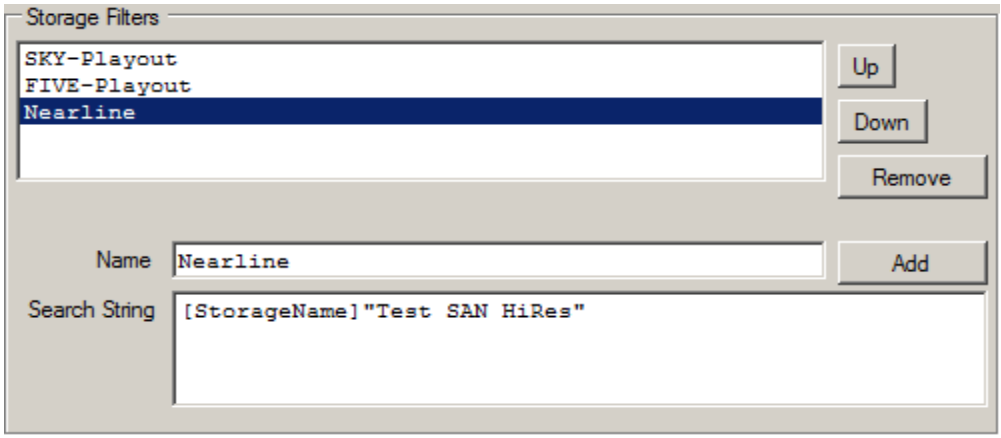
To add a global filter, proceed as follows:

1. Open the Clips or Edits tab.
2. In the **Name** field, type a global filter name.
3. In the **Search String** field, associate a search string. A search string is composed of the metadata field to search on (between brackets) and a search criterion (e.g. [StorageName] "XT_Blue".
4. Click on the **Add** button.
5. Click on the **Save** button and reload the IPMOSBrowser to apply the changes.

2.4.6. Adding Storage Filters

Introduction

The Storage Filters area displays the collection filters shown in the IPMOSBrowser.



A storage filter is an item below the Clips node in the left part of theIPMOSBrowser.

Each storage is a filtering of the clip list. Each storage collection is then a search condition.

Adding a Storage Filter

To add a storage filter, proceed as follows:

1. Open the Clips tab.
2. In the **Name** field, type a storage filter name.
3. In the **Search String** field, associate a search string. A search string is composed of the clip metadata field to search on (between brackets) and a search criterion (e.g. [Type] "Xt").
4. Click on the **Add** button.
5. Click on the **Save** button and reload the IPMOSBrowser to apply the changes.

2.4.7. Opening MOS ActiveX Player With a Different User Account

Introduction

To be able to launch the MOS ActiveX Player from within IPMOSBrowser and preview a low-resolution version of a particular clip or edit, the user must have the necessary rights to access the location where the low-resolution files are stored.

In certain situations, the user does not have these rights.

To avoid that a standard user won't be able to launch the MOS ActiveX Player, a third party utility can be used called Runasspc. It is installed on the NCS client PC.

With Runasspc a standard user does not have to log in as administrator to run this application. Runasspc starts the MOS ActiveX Player under another user account than the logged-in user. The application and the account information will be read from a secured crypt file.

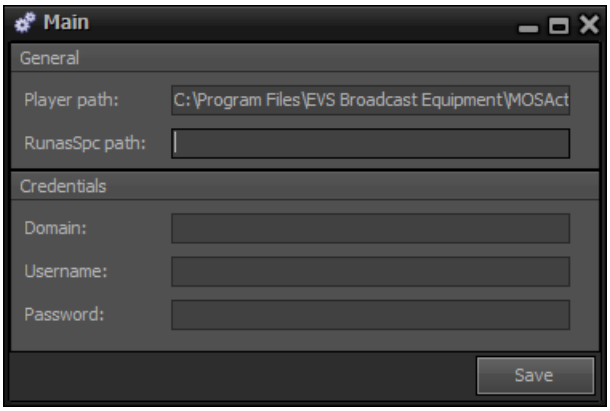
The IPMOSBrowser will command Runasspc to launch the MOS ActiveX Player with the data stored in the registry.

Configuration

To be able to launch the MOS ActiveX Player in the IPMOSBrowser with a different user account and preview a low-resolution file of a particular clip , proceed as follows:

1. In the directory `C:\EVS Broadcast Equipment\iNewsEVSBrowser\Configurator`, double-click the file `EVSBrowserConfig.exe`.

   The following window appears.



2. In the **RunasSpc Path** field, enter the path to the runasspc.exe: `C:\WINDOWS\system32\runasspc.exe`. This is only used in case the MOS ActiveX Player needs to be opened with another user account as the one that is logged in.
3. In the Credentials area, enter the domain name, username and password. The user does not have to exist locally on the machine.
4. Click **Save**.

   The values are saved in the registry. The password is hashed and is not visible to be used in plain text.

2.5. Configuring IPDirector

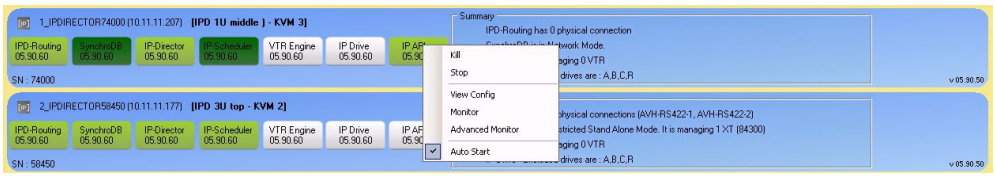
2.5.1. Preparing the IPDirector API

Starting an IP API Service on IPDirector

To start an IP API Service on IPDirector, proceed as follows:

1. Open the IPDirector Remote Installer and start the IP API Service on at least one IP Director.

2. Set the service to **Auto Start** to be sure that the service will always be available.

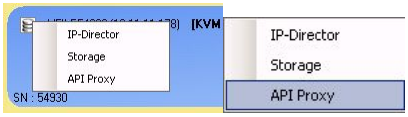


Starting an IP API Proxy

An API Proxy can be used if you have one or two dedicated database servers and you want to use multiple APIs (for load balancing and fault-tolerance).

To start an IP API Proxy, proceed as follows:

1. Install the Remote Installer on each IPDirector database server.
2. Assign them the **API Proxy** mode.



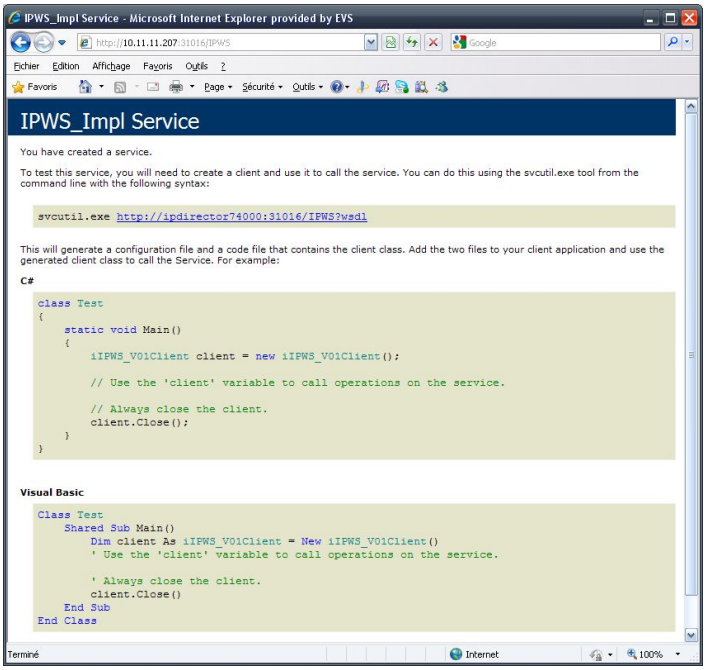
3. Deploy the IPDirector package on the IPDirector database servers.
4. Start the IP API Service and set it to **Auto Start**.

Checking the API Connection

To check the API connection, proceed as follows:

1. Start a web browser.
2. Type the address `http://ApiIPAddress:31016/IPWS` where the ApiIPAddress is the IP address of the IPDirector where you have started your API or the IP address of the database server if you have installed a proxy (dedicated or virtual IP address).

You should get a web page similar to the following screenshot.


IPWS_Impl Service - Microsoft Internet Explorer provided by EVS
IPWS_Impl Service
You have created a service.
To test this service, you will need to create a client and use it to call the service. You can do this using the svcutil.exe tool from the command line with the following syntax:
svcutil.exe http://ipdirector74000:31016/IPWS?wsdl
This will generate a configuration file and a code file that contains the client class. Add the two files to your client application and use the generated client class to call the Service. For example:
C#
class Test
{
static void Main()
{
iIPWS_V01Client client = new iIPWS_V01Client();
// Use the 'client' variable to call operations on the service.
// Always close the client.
client.Close();
}
}
Visual Basic
Class Test
Shared Sub Main()
Dim client As iIPWS_V01Client = New iIPWS_V01Client()
' Use the 'client' variable to call operations on the service.
' Always close the client.
client.Close()
End Sub
End Class

2.5.2. Create a User for the IPMOSGateway

It is advised to consider adding a custom user to the IPDirector database to allow the IPMosGateway to log into the Web Service API with a limited user instance.

To create a user, proceed as follows:

1. Launch the IP-Director User Manager.

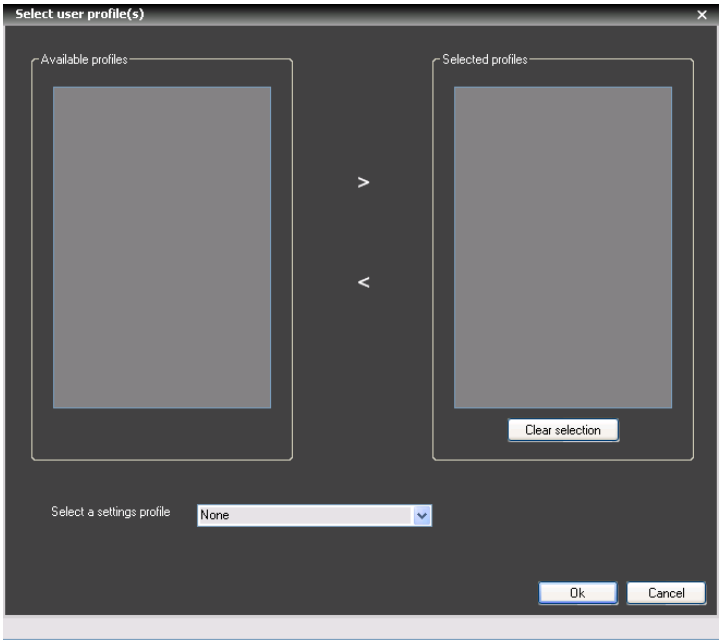
   The login window is opened.

2. Enter the administrator login and password. Then click **OK**.

   The main interface of IP-Director User Manager opens.

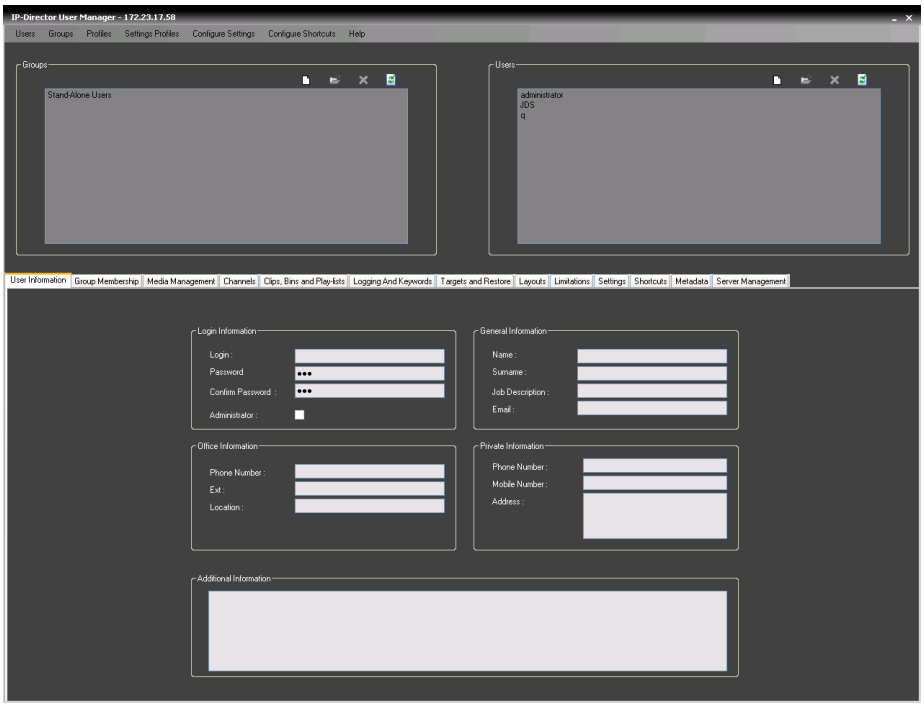
3. In the **Users** menu select **New**.

   The 'Select user profile(s)' window is opened.

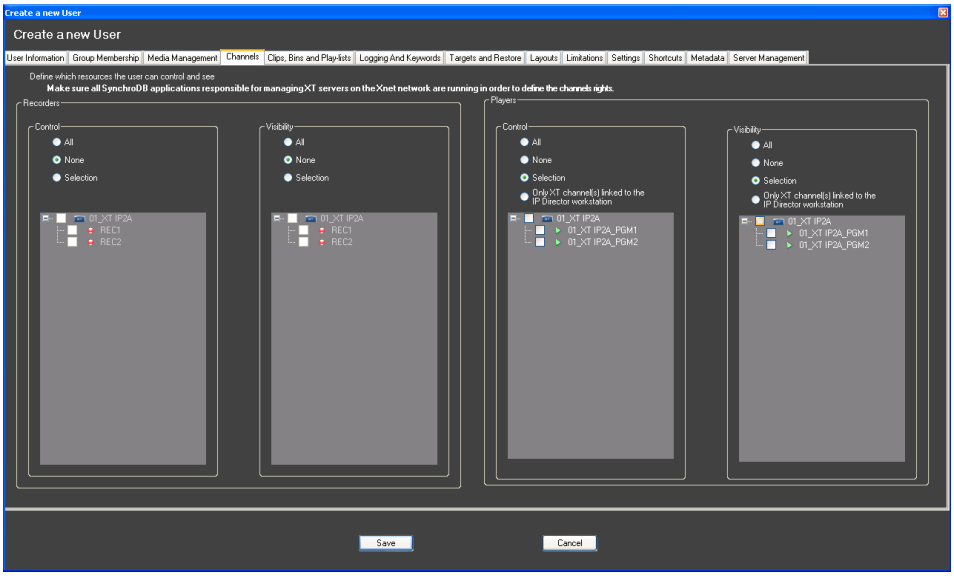


4. Use the **<** button to remove the profiles from the selected list. Click **OK** when you're done.

   The Create a New User window opens.

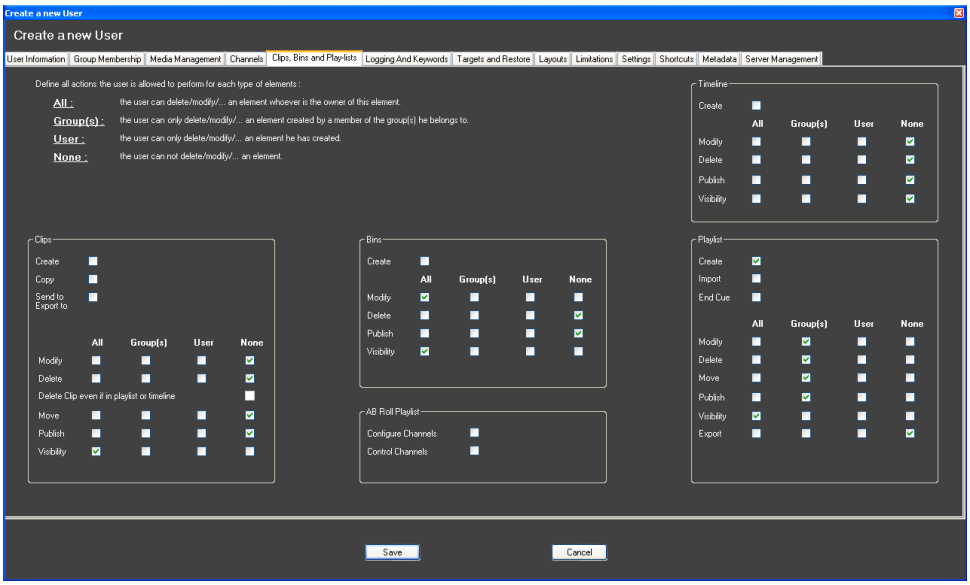


5. Enter a login and a password for the new user. Confirm the password.
6. Click **Save**.
7. Open the Channels tab.
8. In the Visibility group box of the Players area, select **Selection** and then select the channels used for playout.



9. Click the **Save** button.
10. Open the Clip, Bins and Playlists (Timeline) tab and do the following:

- In the Clips group box, select the check box **Visibility All**.
- In the Bins group box, select the check boxes **Modify All** and **Visibility All**.
- In the Edits group box, select the check boxes **Create**, **Modify Group(s)**, **Delete Group(s)**, **Publish Group(s)** and **Visibility All**.
- In the Playlist group box, select the check boxes **Create**, **Modify Group(s)**, **Delete Group(s)**, **Move Group(s)**, **Publish Group(s)** and **Visibility All**.



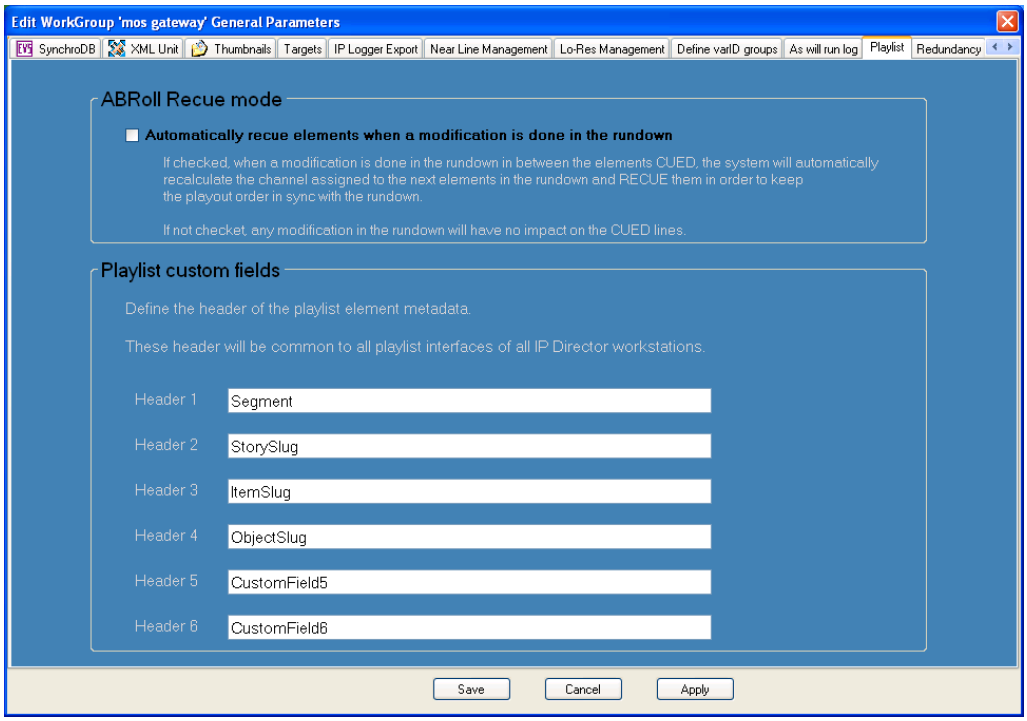
11. Click the **Save** button.

2.5.3. Playlist Custom Fields

Defining Playlist Custom Fields

The following 4 playlist custom fields should be defined in the IPDirector Remote Installer to allow for better rundown metadata to be visible to the playout user:

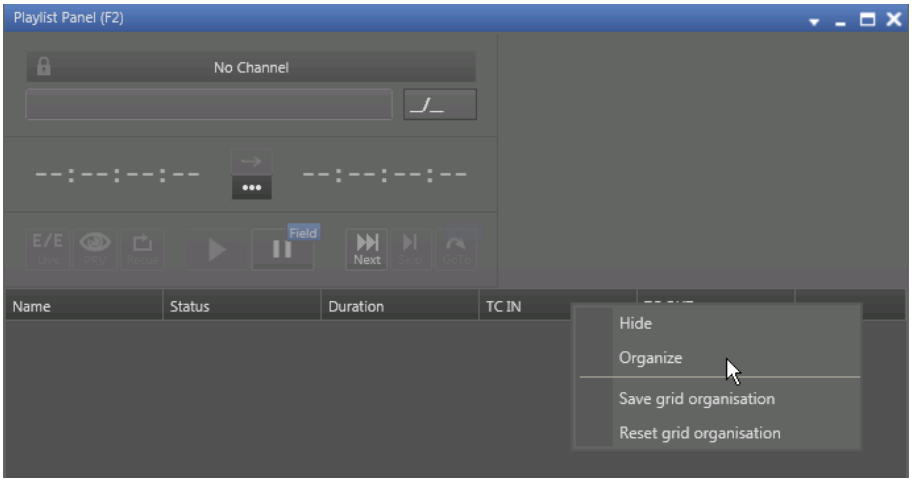
- Segment (for ENPS) or Page Code (for iNews)
- StorySlug
- ItemSlug
- ObjectSlug


Edit WorkGroup 'mos gateway' General Parameters
SynchroDB
XML Unit
Thumbnails
Targets
IP Logger Export
Near Line Management
Lo-Res Management
Define varID groups
As will run log
Playlist
Redundancy
ABRoll Recue mode
Automatically recue elements when a modification is done in the rundown
If checked, when a modification is done in the rundown in between the elements CUED, the system will automatically recalculate the channel assigned to the next elements in the rundown and RECUE them in order to keep the playout order in sync with the rundown.
If not checket, any modification in the rundown will have no impact on the CUED lines.
Playlist custom fields
Define the header of the playlist element metadata.
These header will be common to all playlist interfaces of all IP Director workstations.
Header 1
Segment
Header 2
StorySlug
Header 3
ItemSlug
Header 4
ObjectSlug
Header 5
CustomField5
Header 6
CustomField6
Save
Cancel
Apply

Adding Playlist Custom Fields to (AB Roll) Playlist Panel

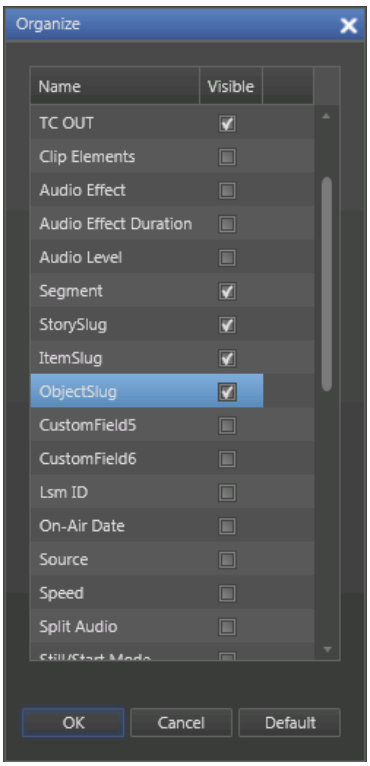
To add the playlist custom fields to the Playlist or the AB Roll Playlist Panel in IPDirector, proceed as follows:

1. Open the Playlist Panel or the AB Roll Playlist Panel.
2. Right-click the Playlist Panel or the AB Roll Playlist Panel and select the option **Organize**.



3. Select the playlist custom fields you have defined in the IPDirector Remote Installer, and then click **OK**

   Afterwards, right click and choose to Save Grid Organization to retain the defined columns for new instances of the window opened in the future.



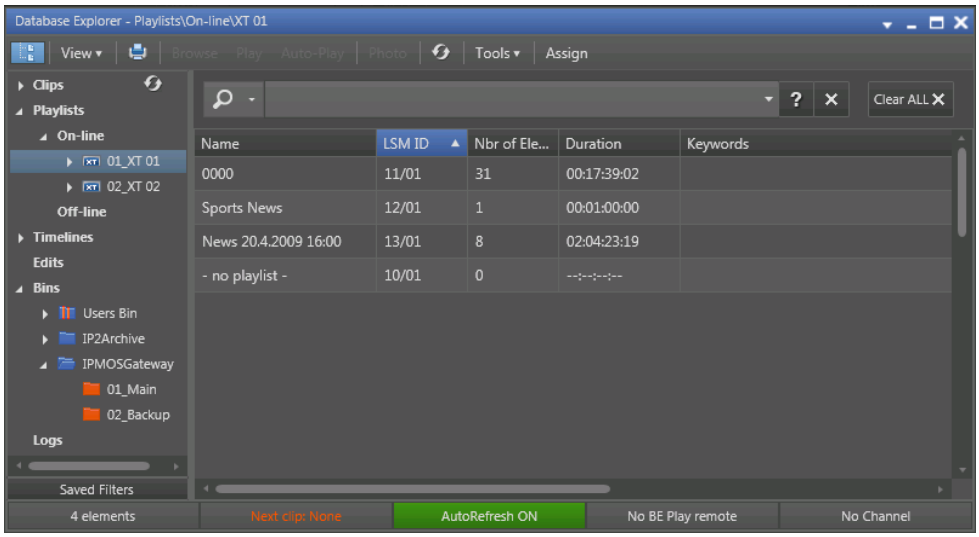
   The custom fields will now be visible in the Playlist Panel or in the AB Roll Playlist Panel. IPMOSGateway will update the content of these fields with the information coming from the Running Order in the NCS.

2.5.4. (Optional) Creating an IPMOSGateway Bin

In the IPDirector Database Explorer, under the Bins Node, create an IPMOSGateway Directory. This directory will hold all the playlists originating from IPMOSGateway. In this

directory you can create two bins:

- Main: for all the playlists created on the main playout XT server.
- Backup: for all the playlists created on the backup playout XT server.



This bin will have to be selected in the XT Servers tab of the IPMOSGateway Settings window. See section "XT Servers Tab" on page 58

2.5.5. (Optional) Initiate ABRoll Playlist

Introduction

The AB Roll Playlist application is used to control and play material on up to 4 channels (A to D) at the same time.

Rundowns from NCS (Newsroom Computer Systems) can be used as input for the AB Roll Playlist application.

Before you can use the AB Roll Playlist, you need to define a channel group and associate that channel group to the AB Roll Playlist.

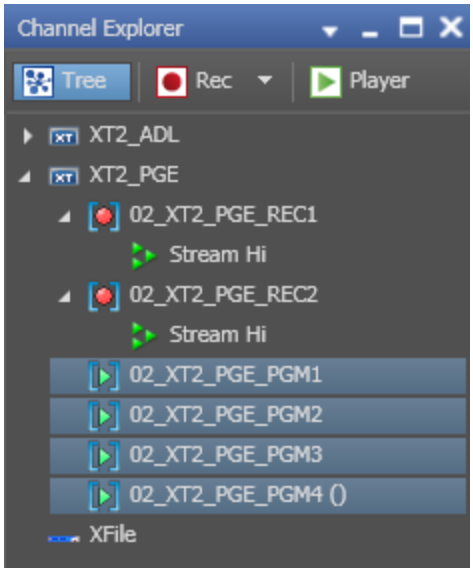
Defining a Channel Group

The AB Roll Playlist can be associated to 2, 3 or 4 channels. Before you can use the AB Roll Playlist, you need to define this channel group in the Channel Explorer.

To define a channel group, proceed as follows:

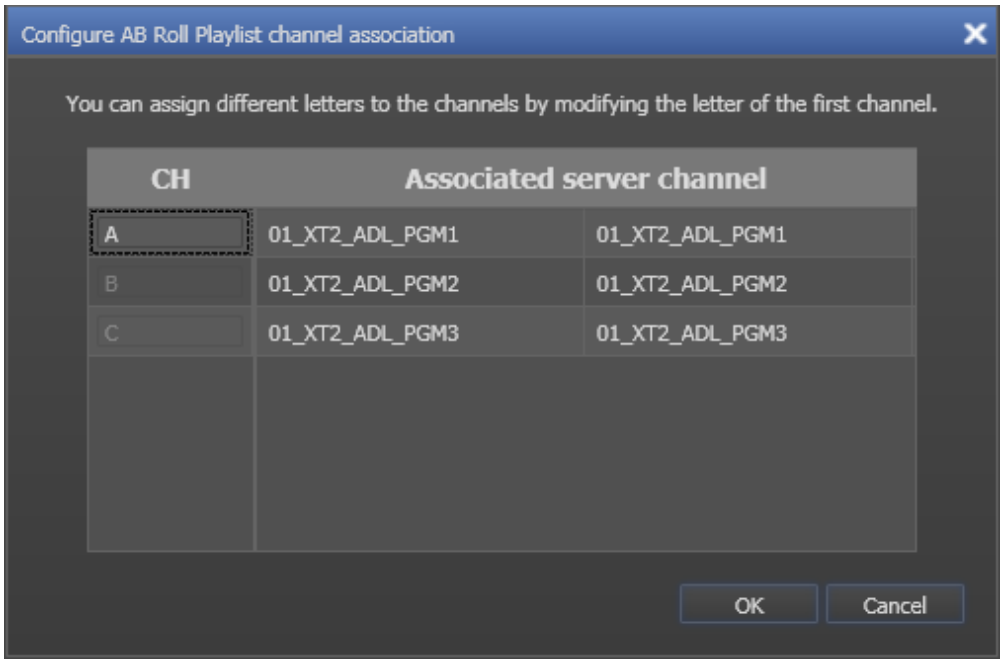
Open the Channel Explorer and browse to the desired channels.

Select the channels that need to be associated to the AB Roll Playlist application.



Right-click the selected channel group and click the **AB Roll Playlist** command from the contextual menu.

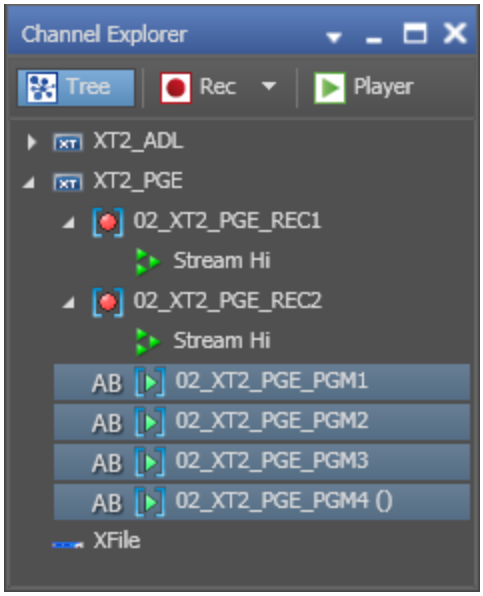
The Configure AB Roll Playlist channel association window appears:



In this window you can edit the channel letters in the left column of the table, if so desired.

Click **OK** to accept the presented allocation.

The selected channels are now marked with the 'Ganged' icon and ready to be used as an AB Roll Playlist channel group:



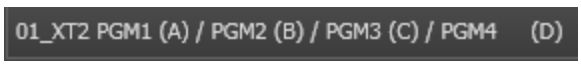
Associating Channels to the AB Roll Playlist

Once the channel group is defined, it can be associated to the AB Roll Playlist.

If no channel is associated to the interface yet, the system will display the following message in the AB Roll Playlist status bar:

To associate the channels to the AB Roll Playlist, proceed as follows:

Right-click the status bar and select the desired channel group previously defined in the Channel Explorer.The status bar content will change and show the associated channels:



The AB Roll Playlist is now ready to use with these channels.

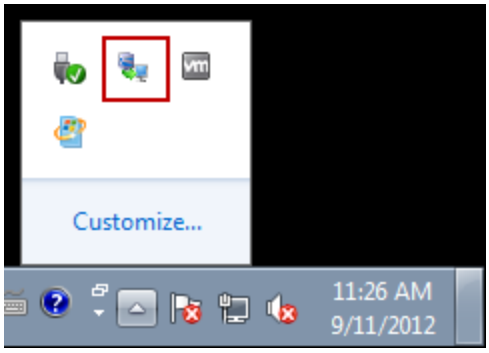
2.6. Configuring IPMOSGateway (EVS Side)

2.6.1. Starting IPMOSGateway

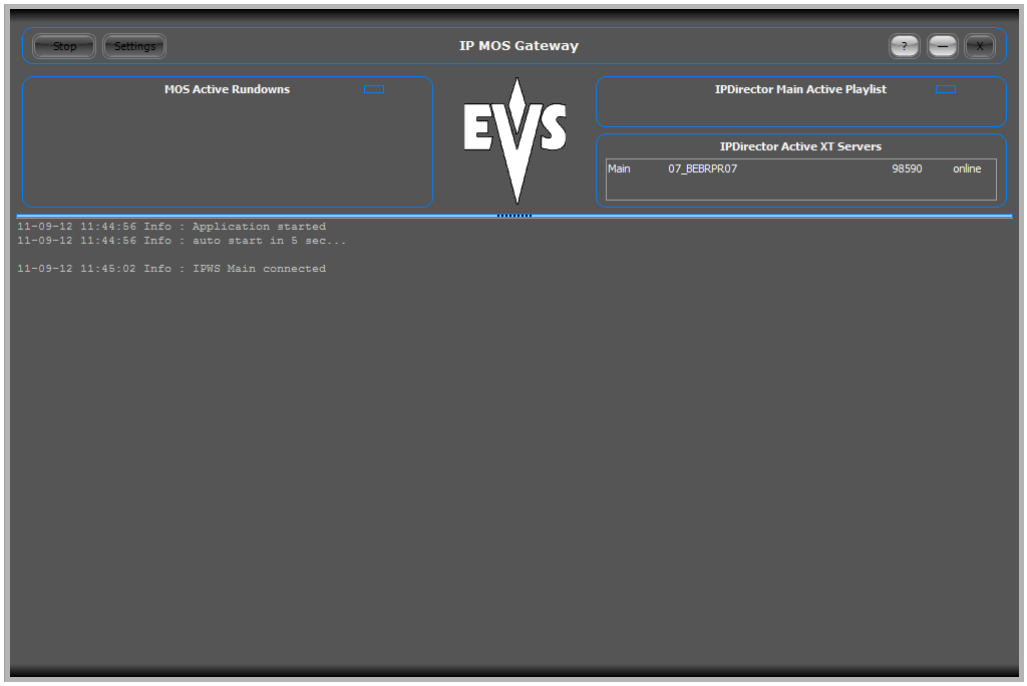
To start IPMOSGateway, double-click the IPMOSGateway shortcut on the desktop of the server hosting IPMOSGateway. You can also start it by double-clicking the file `IPMOSGateway.exe` in the installation folder.

See section "Installing IPMOSGateway" on page 2 for more information on how to create a shortcut.

An icon will appear in the notification area, at the far right of the taskbar.



Double-click the icon to show the main screen of the IPMOSGateway.

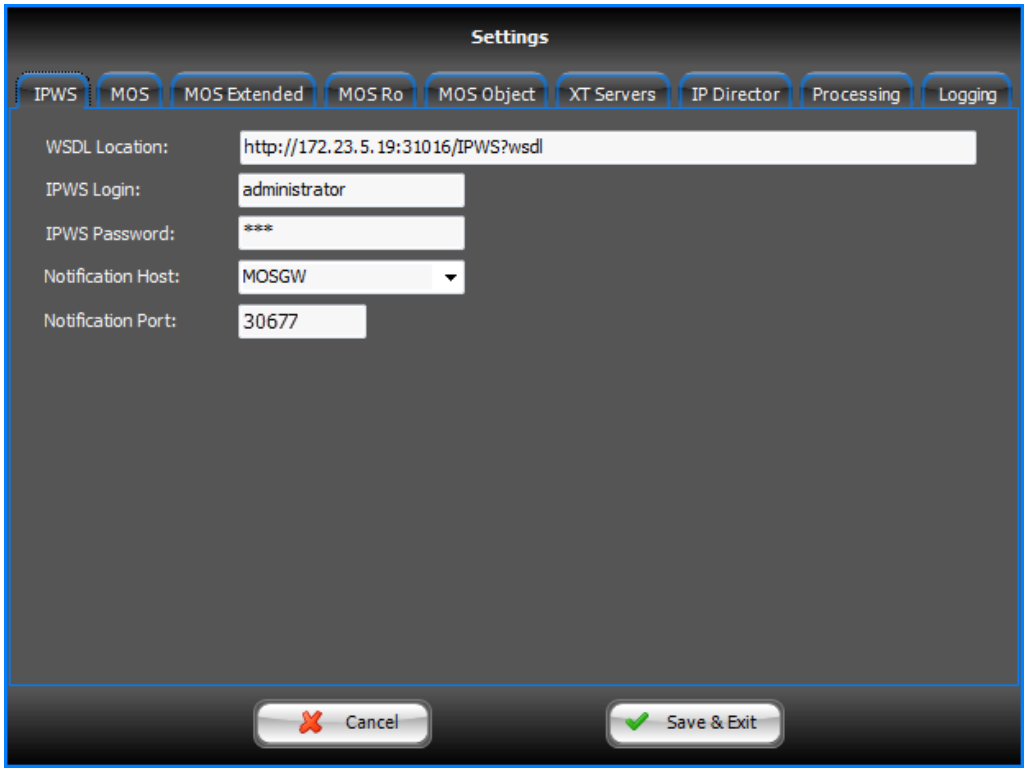

Stop
Settings
IP MOS Gateway
MOS Active Rundowns
IPDirector Main Active Playlist
IPDirector Active XT Servers
Main 07_BEBRPR07 98590 online
11-09-12 11:44:56 Info : Application started
11-09-12 11:44:56 Info : auto start in 5 sec...
11-09-12 11:45:02 Info : IPWS Main connected

Click on **Settings** to open the Settings window.

2.6.2. Settings Window

IPWS Tab

The IPWS tab allows you to configure the communication with the IPDirector SOAP API.



The table below describes the various settings:

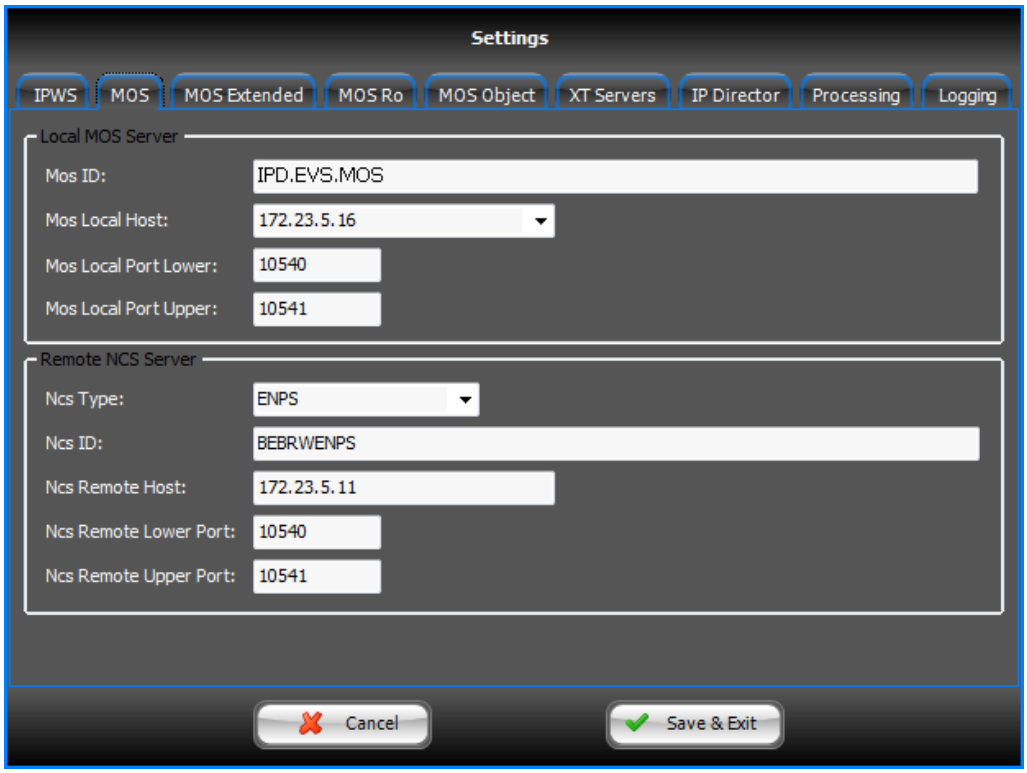
Setting	Description
WSDL Location	The service address of the hosted IPDirector Web Services WSDL. The IP address used in this URL must be the IP address of the IPDirector API or the IP address of the IPDirector API proxy. Hostname resolution should be in place if a hostname is used in this space instead of the IP address.
IPWS Login	The login name used to log into the IPDirector SOAP API. The login name must be that of a valid IPDirector user having the rights to create playlists and list the clips on the EVS server system.
IPWS Password	The password used to log into the IPDirector SOAP API. The password must be the password associated to the user that was created in IPDirector.
Notification Host	The hostname or the IP address of the local computer hosting the IPMOSGateway. This will be the location of a locally started service to receive notifications from the IPWS. By default, this is the hostname of the local computer.
Notification Port	The TCP port used for the locally started service that will receive notifications from the IPWS. The default notification port number is '30677'.

Tip

If you have changed something in the WSDL location or the IPDirector SOAP API login name or password, save your settings and restart the IPMOSGateway application before going to the other settings.

MOS Tab

The MOS tab allows you to configure the MOS link between the NCS (Newsroom Computer System) and the IPMOSGateway.



Local MOS Server

In the Local MOS Server group box you have to enter the data the NCS needs to be able to communicate with IPMOSGateway. The table below describes the various settings:

Setting	Description
Mos ID	The name used to identify your IPMOSGateway in the NCS. The default MOS ID is 'IPD.EVS.MOS'.
Mos Local Host	The IP address of the server on which IPMOSGateway is installed. It is used to communicate with the NCS.
Mos Local Port Lower	The default TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Mos Local Port Upper	The default TCP/IP port on which MOS will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

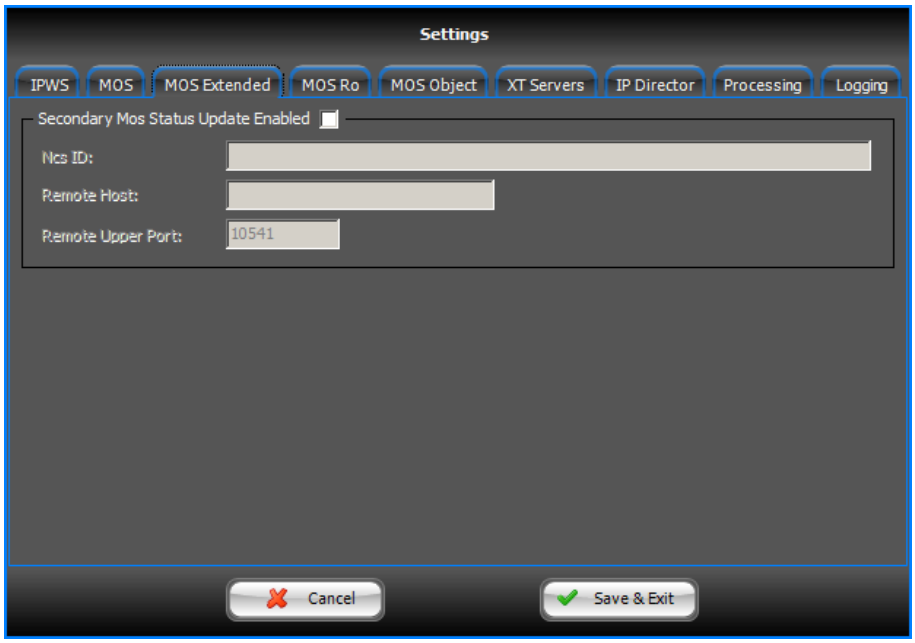
Remote NCS Server

In the Remote NCS Server group box you have to enter the data IPMOSGateway needs to be able to communicate with the NCS.

Setting	Description
NCS Type	Defines the type of NCS that IPMOSGateway is communicating with. This is used to change some variables which are specific to each system.
NCS ID	The name used to identify the NCS.
NCS Remote Host	The IP address of the computer that hosts the NCS.
NCS Remote Lower Port	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
NCS Remote Upper Port	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

MOS Extended Tab

The MOS Extended tab contains settings that only apply when a secondary NCS server or an ENPS Buddy Server is used in the setup.



The settings to configure an ENPS Buddy Server only appear if you selected ENPS as NCS type in the MOS tab. See section "MOS Tab" on page 52.

Secondary Mos Status Update

The Secondary Mos Status Update Enabled group box is used when it is necessary to update a secondary server with the playout status of the IPMOSGateway. To activate the settings, select the corresponding check box. If activated the roItemStat messages send to the NCS will also be sent to this secondary configured server

The table below describes the various settings:

Setting	Description
NCS ID	The name used to identify the secondary server.
Remote Host	The IP address of the server that hosts the NCS.
Remote Upper Port	The TCP/IP port on which the MOS will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

ENPS Buddy Server

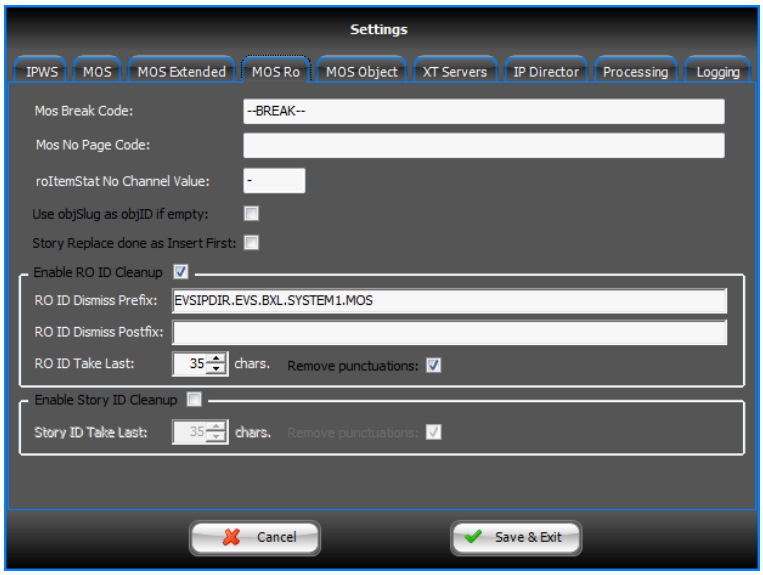
The ENPS Buddy Server Enabled group box is used in case of an ENPS system when an ENPS Buddy server is used for backup purposes. To activate the settings, select the corresponding check box.

The table below describes the various settings:

Setting	Description
NCS ID	The name used to identify the buddy server.
Remote Host	The IP address of the backup server that hosts the NCS.
Remote Lower Port	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Remote Upper Port	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

MOS RO Tab

The MOS RO tab contains settings that apply to the Running Order in the NCS.



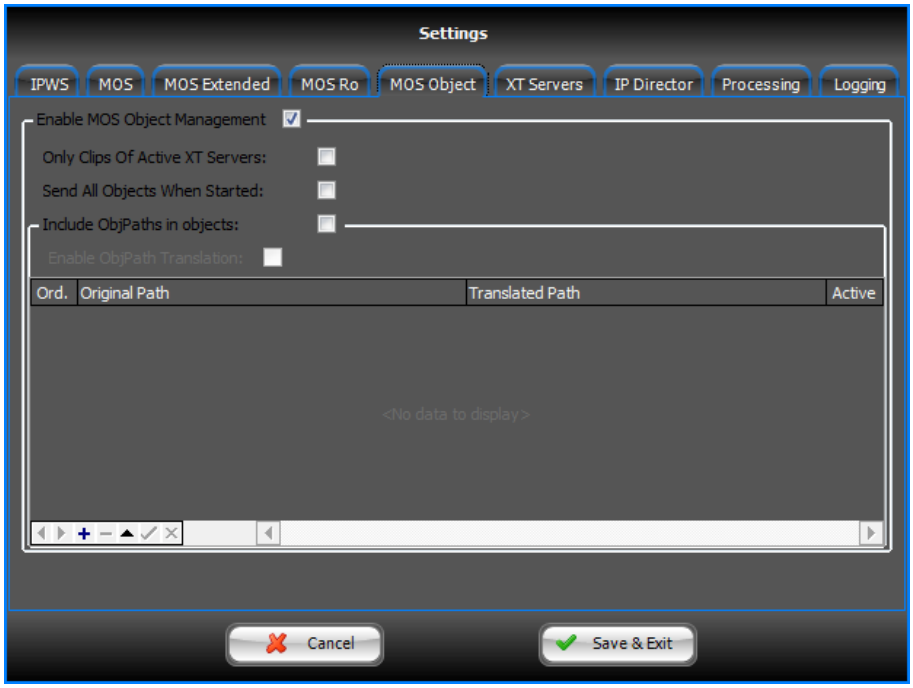
The table below describes the various settings:

Setting	Description
Mos Break Code	If an “empty” story, i.e. a story with no video item attached to it, has the Mos Break Code string (default “**–BREAK–**“) in its Story Slug, it will be converted into a break and seen as a comment in the IPDirector playlist. This setting is used if the NCS MOS Gateway does send empty stories.
Mos No Page Code	This setting only applies to iNews. If no page code has been entered for a story in iNews, this has to be reflected in the playlist in IPDirector. The **Page Code** playlist custom field in the IPDirector playlist has to remain empty. In the **Mos No Page Code** field you can enter the value (by default "NO PAGE") that will be used by IPMOSGateway to notify that no page code has been entered in iNews for a story and so that no page code has to be displayed in the IPDirector playlist.
roItemStat No Channel Value	Once a clip in a playlist has been played out on a particular server channel, it is no longer assigned to this channel. In the **roItemStat No Channel Value** field a value can be entered that should be displayed in the RO (Running Order) of the NCS to indicate that clip is not assigned to a channel. The default value is -.
Use objSlug as objID if empty	If the NCS system passes a RO with an object that does not contain an ObjectID value, the IPMOSGateway can be enabled to utilize the Object Slug as the varID for the playlist element. By default, this setting is not enabled.
Story Replace Done as Insert First	Defines if a story replace is translated in a “delete old story” then “insert new story” (if option is not enabled) or a “insert new story before the old one” then “delete the old story”. By default, this setting is not enabled.
Enable RO ID Cleanup	Enables the RO ID Cleanup settings or not.
RO ID Dismiss Prefix	Truncates the RO ID sent by the NCS by removing the defined prefix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for ENPS and iNews to cut off the NCS ID. Example: BEBRWENPS;P_SYSTEM\\W;
RO ID Dismiss Postfix	Truncates the RO ID sent by the NCS by removing the defined postfix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for iNews to cut off the "RUNDOWN".

Setting	Description
RO ID Take Last	Takes only the given number of last characters of the RO IDs. This is necessarry if the RO ID is longer then 32 characters and that the relevant unique ID is at the end of the RoID. This setting is mainly necessary for ENPS. By default, this is set to 35 characters. Example: BEBRWENPS;P_SYSTEM\W;8BEBA3EE-4422-44FA-B280495484F0B681 (= [NCS SERVER];[FOLDER];[GUID]) Last 35 = GUID = 8BEBA3EE-4422-44FA-B280495484F0B681 Remove punctuations = 32 character Playlist VarID = 8BEBA3EE442244FAB280495484F0B681
Remove Punctuations	If enabled, the punctuation (‘-‘,’.’, ‘’ ,…) will be removed from the RO ID after dismissing all parts in previous settings if configured.
Enable Story ID Cleanup	Enables the Story ID Cleanup settings or not.
Story ID Take Last	Takes only the given number of last characters of the story IDs. This is useful if the story ID is rather long and always has the same length prefix. This setting is recommended for ENPS. By default, this is set to 35 characters. Example: Story ID: BEBRWENPS;P_SYSTEM\W\R_8BEBA3EE-4422-44FA-B280495484F0B681;469E75B5-31A3-4030-AFF9F3695746BE0B (= [RO_ ID];[GUID]) Last 35 = GUID = 469E75B5-31A3-4030-AFF9F3695746BE0B Remove punctuations = 32 character Playlist Elem Third Party ID = 469E75B531A34030AFF9F3695746BE0B

MOS Object Tab

The MOS Object tab contains settings that relate to the management of MOS objects.

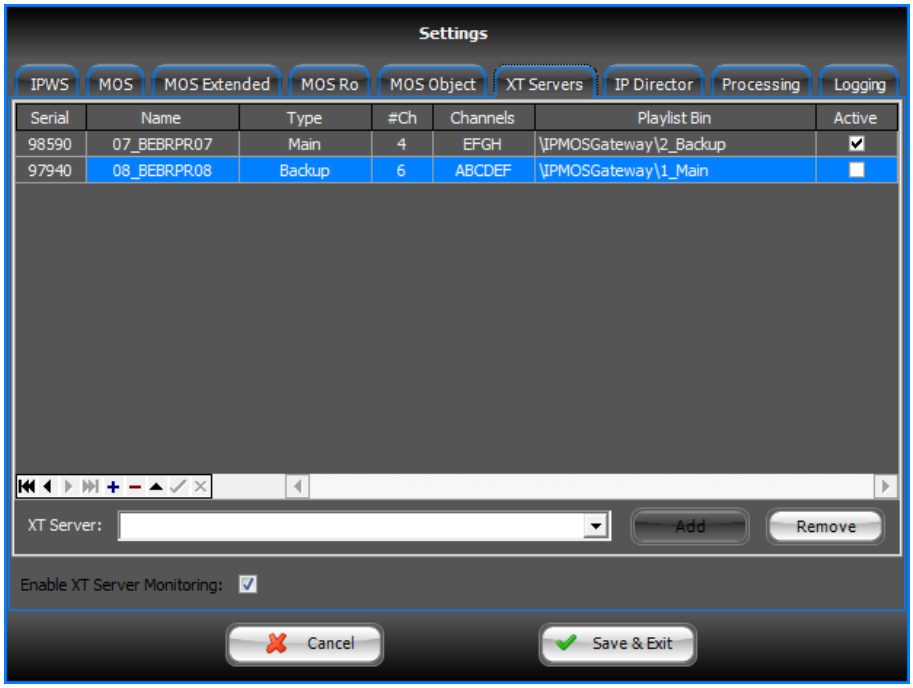


The table below describes the various settings:

Setting	Description
Enable MOS Object Management	If this settings is enabled, IPMOSGateway sends the clip object definition to the NCS. This settings is not used with iNews. This setting is useful with ENPS.
Only Clips of Active XT Servers	If this settings is enabled, only the status of clip objects for the servers defined in the IPMOSGateway XT Servers tab will be communicated. This settings is useful when there are more XT servers on the SDTI network that need to be ignored.
Send All Objects When Started	If this settings is enabled, IPMOSGateway will pass the information for all XT clips to the NCS at start-up. This is useful when the NCS system can accept the clips into its database for user searching.
Include ObjPaths in objects	If this setting is enabled, the path to the video files is included in the object definition. If the video files do not exist, the object path will be empty. In the NCS it will be possible to play back the video files.
Enable ObjPath Translation	If this setting is enabled, you can translate the UNC path of the video file that is linked to an object to an HTTP or FTP path. This setting especially applies to ENPS. These settings are only available with IPDirector version 6.

XT Servers Tab

The XT Servers tab allows you to add XT servers and activate them.



Adding an XT Server

To add an XT server to the XT Servers tab, proceed as follows:

1. In the **XT Server** list at the bottom of the window, select the desired XT server and add it to the server list.

   The name and serial number are automatically entered. This information comes from the IPDirector API.

Tip
If a server is missing or if you find nothing in the list, verify that the server is seen by IPDirector and verify you connections to the API.

2. Select the type of server: **Main** or **Backup**.
3. Define the number of playout channels where the rundown will be played:

- **1** : If the rundown will be loaded in a Playlist panel.
- 2->6: If the rundown will be loaded in the AB Roll Playlist panel (depending on the ABRoll configuration).

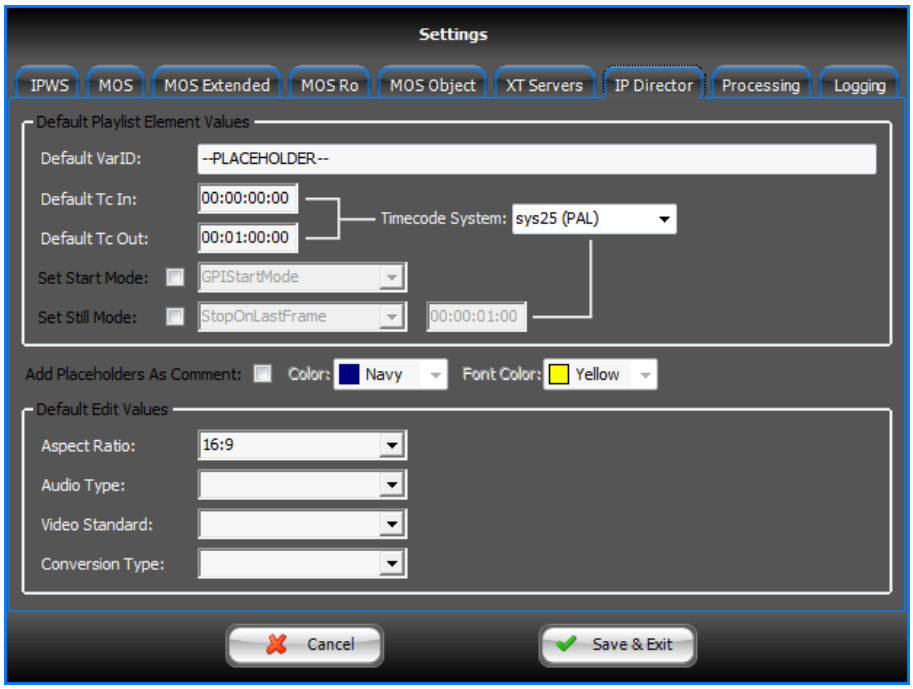
4. Define the channel name letters associated to the playout channels in the NCS. Choosing 'A' will define the stating letter, and sequence through based on the channel number defined.
5. Select the existing IPDirector bin where the rundown playlist will be put upon creation.
6. Activate the server.

   If checked the rundown will be created on the server. If unchecked, the server is disabled and playlists will not be created or updated on the server.

Enable XT Server Monitoring

If this setting is enabled, IPMOSGateway will monitor if the XT servers are running or not. If an XT server is no longer running, IPMOSGateway will no longer update the playlists on the XT server that has stopped.

IPDirector Tab



Default Playlist Element Values

The table below describes the various settings:

Setting	Description
Default VarID	The VarID used in the virtual element associated to empty stories. This value can be defined as **--PLACEHOLDER--** or whatever value you want to be displayed for the user.
Default TC In	The default TC In used in the virtual element associated to empty stories.
Default TC Out	The default TC Out used in the virtual element associated to empty stories.

Setting	Description
Timecode System	Must match the Timecode base being used in the facility.
Set Start Mode	Is set if the IPMOSGateway must explicitly specify the start mode for each playlist element. You can choose between the following start modes: • GPIStartMode • AutomaticallyStartMode • ManuallyStartMode • This setting only applies for single playout, not for ABRoll playout.
Set Still Mode	Is set if the MOS gateway must explicitly specify the still mode for each playlist element. You can choose between the following still modes: • StopOnLastFrame • NoStillMode • StopOnFirstFrame • StopOnTransitionTimer • For the StopOnTransitionTimer still mode a time interval can be set after which the next element in the playlist may start. • This setting only applies for single playout, not for AB Roll playout.

Add Placeholders As Comment

If the option **Add Placeholders As Comment** is selected, an empty story in the RO is not replaced by a virtual element in the IPDirector playlist, but by a playlist comment. You can select the background color of the comment and the font color of the comment text.

Default Edit Values

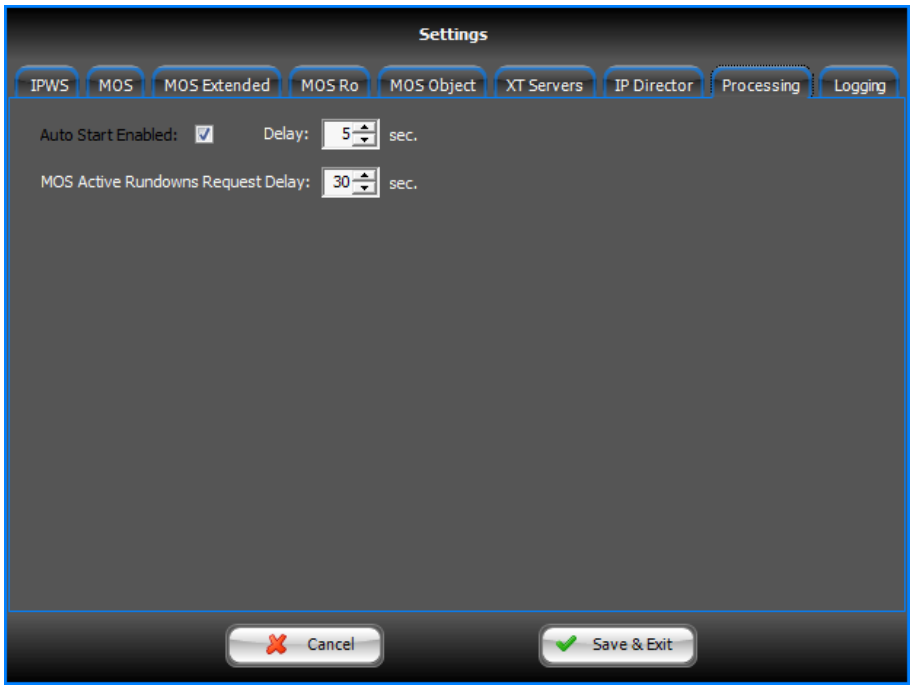
In the Default Edit Values area you can set a number of default edit info values. IPMOSGateway will automatically select these values when creating a new edit in IPDirector. IPMOSGateway will create a new edit when receiving a MOS Object Create command from the NCS.

The default value of the following edit metadata fields can be set:

- Aspect Ratio
- Audio Type
- Video Standard
- Conversion Type

Processing Tab

The Processing tab allows you to configure some automatic processing tasks.

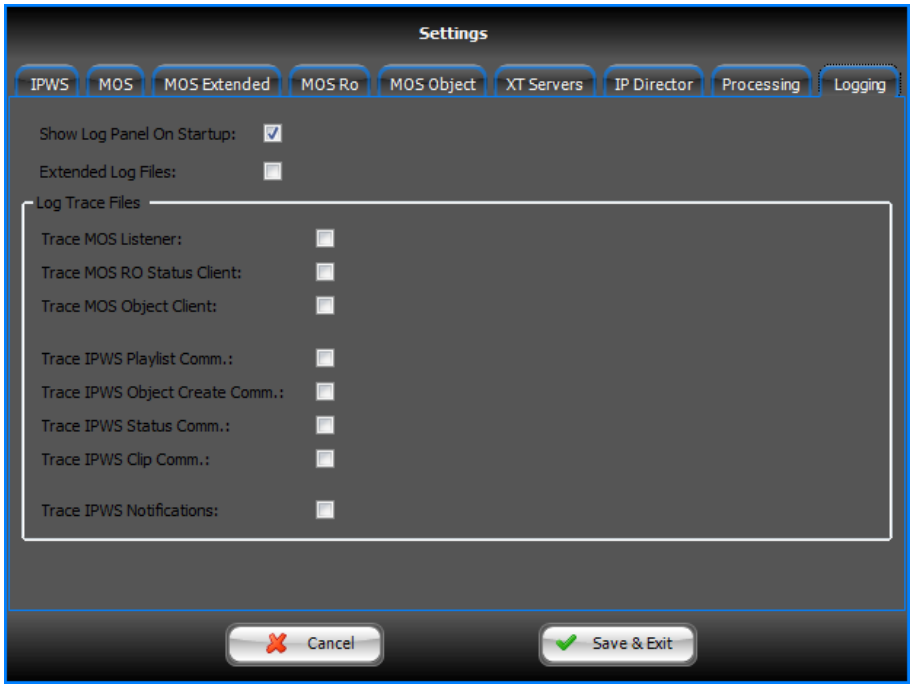


The table below describes the various settings:

Setting	Description
Auto Start Enabled	Select this setting if you want the communication with the IPMOSGateway automatically started a few seconds after the application start-up.
Delay	In this field you can set the amount of time between the application start and the MOS communications autostart.
MOS Active Rundowns Request Delay	In this field you can set the amount of time between the request for active rundowns from the NCS. Every X seconds the IPMOSGateway will request the NCS for all its active rundowns. This updates the list at the upper left of the IPMOSGateway GUI. (0 disables this repeated request)

Logging Tab

This Tab allows the EVS representative to enable and elevate logging status of the application during testing and install.



The table below describes the various settings:

Setting	Description
Show Log Panel on Startup	If selected, the Log panel will be displayed at start-up.
Extended Log Files	If selected, more detailed logs will be displayed in the Log panel.
Trace MOS Listener	If selected, the Running Order commands originating from the NCS will be displayed in the Log panel.
Trace MOS RO Status Client	If selected, the communication between the NCS and IPMOSGateway about the status of the Running Order will be displayed in the Log panel.
Trace MOS Object Client	If selected, the communication between the NCS and IPMOSGateway about created and updated MOS Objects will be displayed in the Log panel.
Trace IPWS Playlist Comm.	If selected, the communication between IPDirector and IPMOSGateway about the creation of playlists in IPDirector will be displayed in the Log panel.
Trace IPWS Object Create Comm.	If selected, the communication between IPDirector and IPMOSGateway about the creation of edits in IPDirector will be displayed in the Log panel.

Setting	Description
Trace IPWS Status Comm.	If selected, the communication between IPDirector and IPMOSGateway about the playout status of playlists will be displayed in the Log panel.
Trace IPWS Clip Comm.	If selected, the between IPDirector and IPMOSGateway about clip information will be displayed in the Log panel.
Trace IPWS Notifications	If selected, the notifications of the IPDirector SOAP API will be displayed in the Log panel.

2.6.3. Registry

Introduction

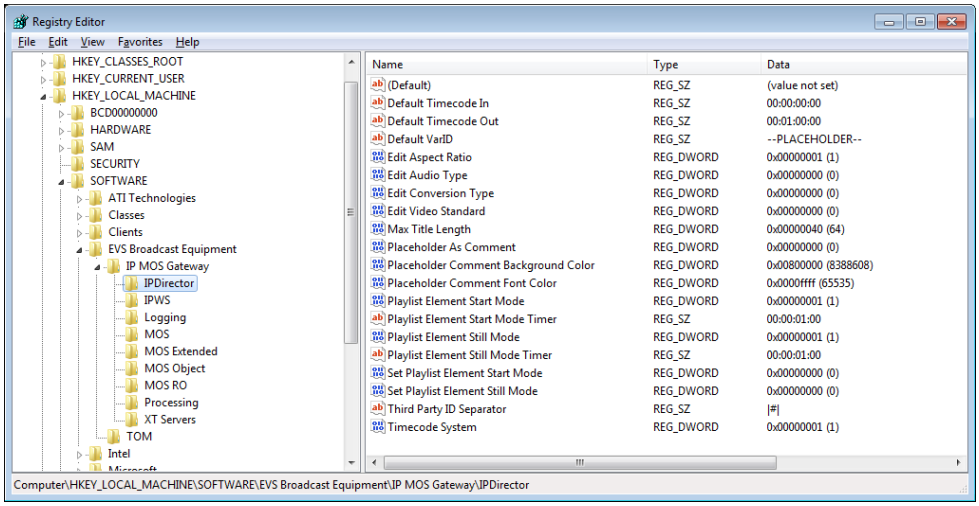
On a 32-bit machine you can find the registry settings of IPMOSGateway in the registry key `HKEY_LOCAL_MACHINE\SOFTWARE\EVS Broadcast Equipment\IP MOS Gateway`.

On a 64-bit machine you can find the registry settings of IPMOSGateway in the registry key `HKEY_LOCAL_MACHINE\SOFTWARE\Wow6432Node\EVS Broadcast Equipment\IP MOS Gateway`.

The registry key IP MOS Gateway has the following subkeys:

- IPDirector
- IPWS
- Logging
- MOS
- MOS Extended
- MOS Object
- MOS RO
- Processing
- XT Servers

IPDirector Subkey



The table below describes the registry values you can manually edit.

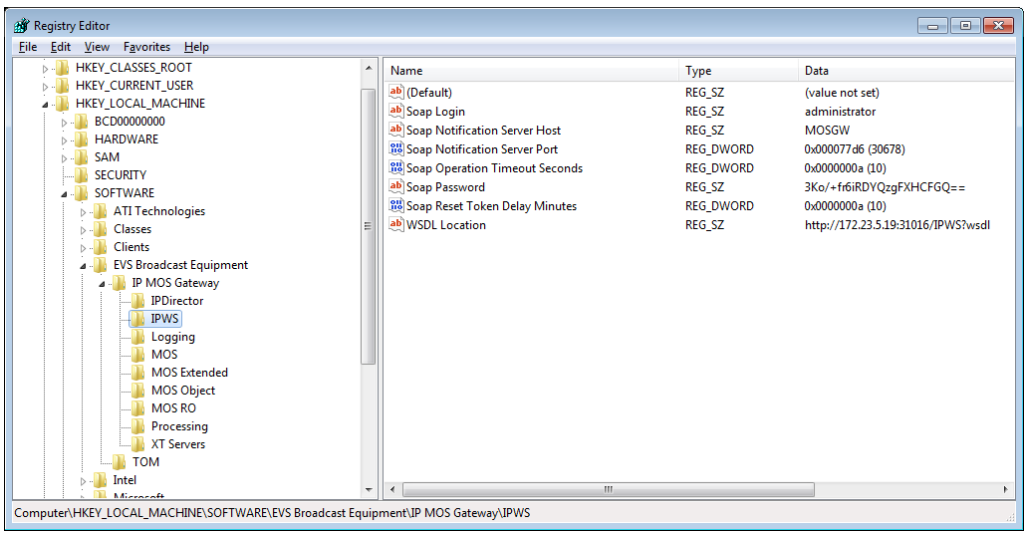
Registry Value	Description
Default Timecode In	The default TC In used in the virtual element associated to empty stories.
Default Timecode Out	The default TC Out used in the virtual element associated to empty stories.
Default VarId	The VarID used in the virtual element associated to empty stories. This value can be defined as --PLACEHOLDER-- or whatever value you want displayed for the user.
Edit Aspect Ratio	The default aspect ratio of an edit created by IPMOSGateway in IPDirector. • 0 = 4:3 Letter Box • 1 = 16:9
Edit Audio Type	The default audio type of an edit created by IPMOSGateway in IPDirector. • 0 = All stereo • 1 = 5.1 + 5x stereo • 2 = 2x 5.1 + 2x stereo
Edit Conversion Type	The default conversion type of an edit created by IPMOSGateway in IPDirector. • 0 = 16/9 --> 4/3 (LB) • 1 = 16/9 --> 4/3 (PS)

Registry Value	Description
Edit Video Standard	The default video standard for an edit created by IPMOSGateway in IPDirector. • 0 = PAL SD 625i • 1 = NTSC SD 525i
Max Title Length	The maximum title length of a playlist element.
Placeholder As Comment	Enables or disables the setting **Add Placeholders As Comment**. If enabled, an empty story in the running order is not replaced by a virtual element in the IPDirector playlist, but by a playlist comment.
Placeholder Comment Background Color	The background color of the placeholder comment. • 0 = black • 1 = maroon • 2 = green • 3 = olive • 4 = navy • 5 = purple • 6 = teal • 7 = gray • 8 = silver • 9 = red • 10 = lime • 11 = yellow • 12 = blue • 13 = fuchsia • 14 = aqua • 15 = white
Placeholder Comment Font Color	The font color of the placeholder comment text. • 0 = black • 1 = maroon • 2 = green • 3 = olive • 4 = navy • 5 = purple • 6 = teal • 7 = gray • 8 = silver • 9 = red • 10 = lime • 11 = yellow • 12 = blue • 13 = fuchsia • 14 = aqua • 15 = white
Playlist Element Start Mode	Is set if the IPMOSGateway must explicitly specify the start mode for each playlist element. • 0 = AutomaticallyStartMode • 1 = GPIStartMode • 2 = ManuallyStartMode

Registry Value	Description
Playlist Element Still Mode	Is set if the IPMOSGateway must explicitly specify the still mode for each playlist element. • 0 = NoStillMode • 1 = StopOnLastFrame • 2 = StopOnFirstFrame • 3 = StopOnTransitionTimer
Playlist Element Still Mode Timer	Defines when the next element in the playlist may start after the previous element has stopped. The default value is 1 second.
Set Playlist Element Start Mode	Enables or disables the Playlist Element Start Mode setting.
Set Playlist Element Still Mode	Enables or disables the Playlist Element Still Mode setting.
Third Party ID Separator	The third party ID of the playlist elements of the IPD playlists created by the IPMOSGatewayconsists of a concatenation of the story ID and the Item ID. Here, the separator used in the third party ID between the story ID and the Item ID can be defined. The default value is | # | .
Timecode System	Must match the Timecode base being used in the facility. • 0 =undefined • 1 = sys25 (PAL) • 2 = sys29.97 (NTSC) • 3 = sys30 (NTSC No Drop)

IPWS Subkey

This subkey contains the registry values IPMOSGateway uses to configure the communication with the IPDirector SOAP API.

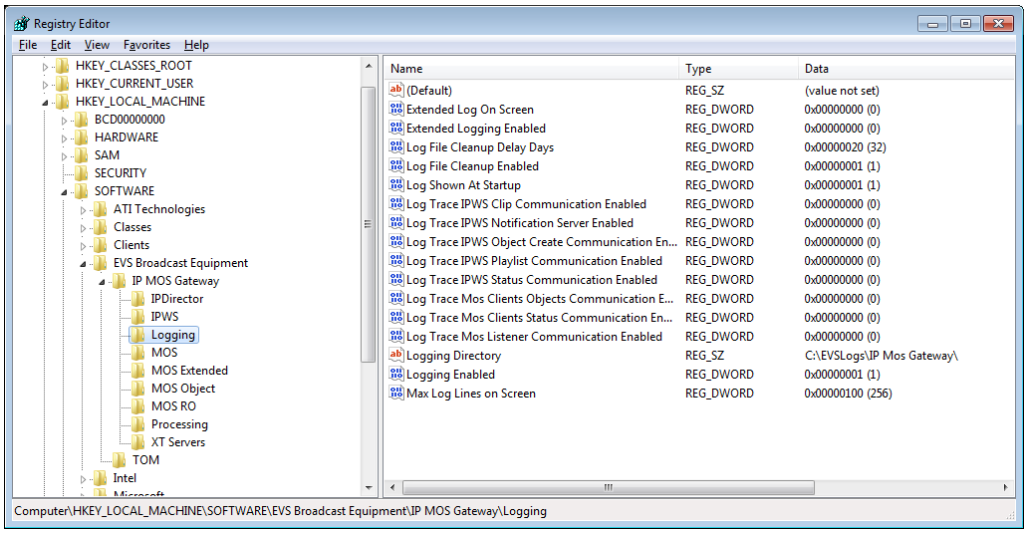


The table below describes the registry values you can manually edit.

Registry Value	Description
Soap Login	The login name used to log into the IPDirector SOAP API. The default value is 'administrator'.
Soap Notification Server Host	The hostname or the IP address of the local computer hosting the IPMOSGateway. This will be the location of a locally started service to receive notifications from the IPWS. By default, this is the hostname of the local computer.
Soap Notification Server Port	The TCP port used for the locally started service that will receive notifications from the IPWS. The default notification port number is '30677'.
Soap Operation Timeout Seconds	Specifies the amount of time, in seconds, IPMOSGateway will wait for a response of the IPDirector API before giving a timeout. The default value is '10'.
Soap Password	The password used to log into the IPDirector SOAP API. The password must be the password associated to the user that was created in IPDirector.
Soap Reset Token Delay Minutes	Specifies the amount of time, in minutes, after which the SOAP authentication token is reset. The default value is '10'.
WSDL Location	The service address of the hosted IPDirector Web Services WSDL. The IP address used in this URL must be the IP address of the IPDirector API or the IP address of the IPDirector API proxy. Hostname resolution should be in place if a hostname is used in this space instead of the IP address.

Logging Subkey

This subkey contains the registry values IPMOSGateway uses to configure the logging of the various communication processes.


Registry Editor
File Edit View Favorites Help
HKEY_CLASSES_ROOT
HKEY_CURRENT_USER
HKEY_LOCAL_MACHINE
BCD00000000
HARDWARE
SAM
SECURITY
SOFTWARE
ATI Technologies
Classes
Clients
EVS Broadcast Equipment
IP MOS Gateway
IPDirector
IPWS
Logging
MOS
MOS Extended
MOS Object
MOS RO
Processing
XT Servers
TOM
Intel
Name Type Data
(Default) REG_SZ (value not set)
Extended Log On Screen REG_DWORD 0x00000000 (0)
Extended Logging Enabled REG_DWORD 0x00000000 (0)
Log File Cleanup Delay Days REG_DWORD 0x00000020 (32)
Log File Cleanup Enabled REG_DWORD 0x00000001 (1)
Log Shown At Startup REG_DWORD 0x00000001 (1)
Log Trace IPWS Clip Communication Enabled REG_DWORD 0x00000000 (0)
Log Trace IPWS Notification Server Enabled REG_DWORD 0x00000000 (0)
Log Trace IPWS Object Create Communication En... REG_DWORD 0x00000000 (0)
Log Trace IPWS Playlist Communication Enabled REG_DWORD 0x00000000 (0)
Log Trace IPWS Status Communication Enabled REG_DWORD 0x00000000 (0)
Log Trace Mos Clients Objects Communication E... REG_DWORD 0x00000000 (0)
Log Trace Mos Clients Status Communication En... REG_DWORD 0x00000000 (0)
Log Trace Mos Listener Communication Enabled REG_DWORD 0x00000000 (0)
Logging Directory REG_SZ C:\EVSLogs\IP Mos Gateway\
Logging Enabled REG_DWORD 0x00000001 (1)
Max Log Lines on Screen REG_DWORD 0x00000100 (256)
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\EVS Broadcast Equipment\IP MOS Gateway\Logging

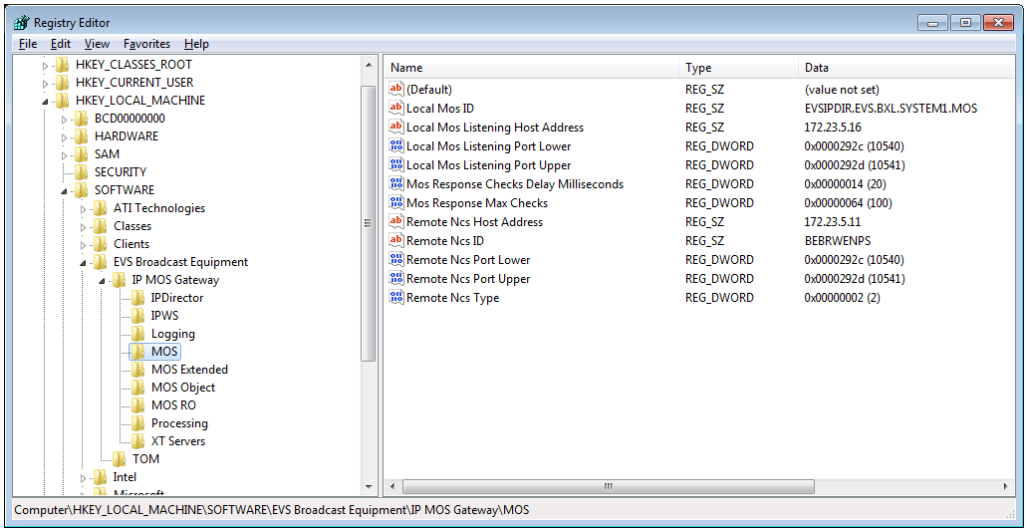
The table below describes the registry values you can manually edit.

Registry Value	Description
Extended Log On Screen	Enables or disables the display of extended logs on screen. By default, this option is disabled.
Extended Logging Enabled	Enables or disables the display of detailed logs in the log files. By default, this option is disabled.
Log File Cleanup Delay Days	Specifies the time interval, in days, after which the log files are automatically deleted from the logging directory. The default value is '32'.
Log File Cleanup Enabled	Enables or disables the automatic clean up of the log files from the logging directory. By default, this option is enabled.
Log Shown At Startup	Enables or disables the display of the Log pane at start-up. By default, this option is enabled.
Log Trace IPWS Clip Communcation Enabled	If enabled, the communication between IPDirector and IPMOSGateway about clip information will be displayed in the Log panel. By default, this option is disabled.
Log Trace IPWS Notification Server Enabled	If enabled, the notifications of the IPDirector SOAP API will be displayed in the Log panel. By default, this option is disabled.
Log Trace IPWS Object Create Communciation Enabled	If enabled, the communication between IPDirector and IPMOSGateway about the creation of edits in IPDirector will be displayed in the Log panel. By default, this option is disabled.
Log Trace IPWS Playlist Communication Enabled	If enabled, the communication between IPDirector and IPMOSGateway about the creation of playlists in IPDirector will be displayed in the Log panel. By default, this option is disabled.
Log Trace IPWS Status Communication Enabled	If enabled, the communication between IPDirector and IPMOSGateway about the playout status of playlists will be displayed in the Log panel. By default, this option is disabled.
Log Trace Mos Clients Objects Communication Enabled	If enabled, the communication between the NCS and IPMOSGateway about created and updated MOS Objects will be displayed in the Log panel. By default, this option is disabled.
Log Trace Mos Clients Status Communication Enabled	If enabled, the communication between the NCS and IPMOSGateway about the status of the RO will be displayed in the Log panel. By default, this option is disabled.
Log Trace Log Listener Communication Enabled	If selected, the RO commands originating from the NCS will be displayed in the Log panel. By default, this option is disabled.

Registry Value	Description
Logging Directory	The directory where the log files are stored. The default directory is C:\EVSLogs\IP Mos Gateway\.
Logging Enabled	If enabled, log files are created and kept.
Max Log Lines On Screen	The maximum number of lines retained by the Log pane. The default value is '256'.

MOS Subkey

This subkey contains the registry values IPMOSGateway uses to configure the communication between IPMOSGateway and the NCS.



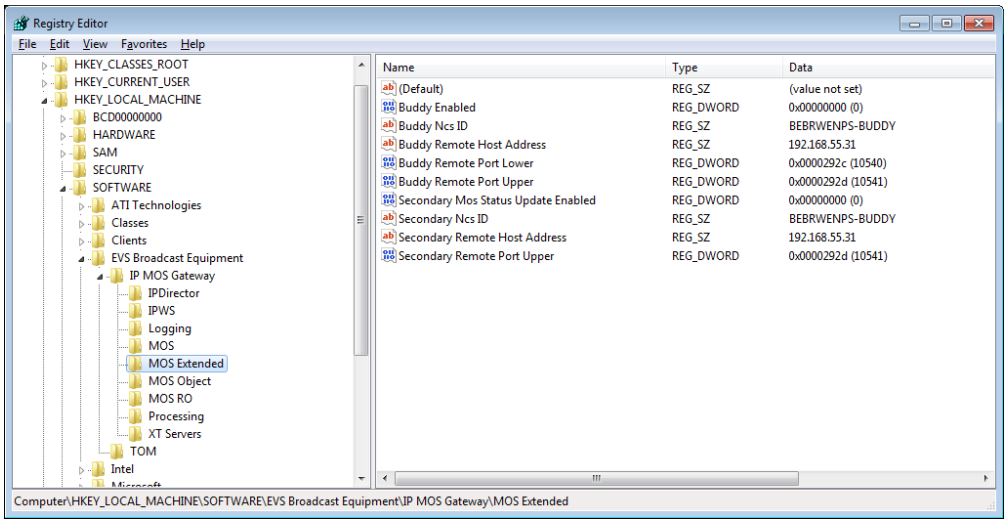
The table below describes the registry values you can manually edit.

Registry Value	Description
Local Mos ID	The name used to identify your IPMOSGateway in the NCS. The default MOS ID is 'ipd.evs.mos'.
Local Mos Listening Host Address	The IP address of the server on which IPMOSGateway is installed. It is used to communicate with the NCS.
Local Mos Listening Port Lower	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Local Mos Listening Port Upper	The TCP/IP port on which MOS will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.
Mos Response Checks Delay Milliseconds	The time interval, in milliseconds, after which IPMOSGateway will check for a response of the NCS. The default value is '20'.

Registry Value	Description
Mos Response Max Checks	The maximum number of times IPMOSGateway will check for a response of the NCS. The default value is '100'.
Remote Ncs Host Address	The IP address of the server that hosts the NCS.
Remote Ncs ID	The name used to identify the NCS.
Remote Ncs Port Lower	The TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Remote Ncs Port Upper	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.
Remote Ncs Type	Defines the type of NCS that IPMOSGateway is communicating with. This is used to change some variables which are specific to each system.

MOS Extended Subkey

The MOS Extended subkey contains registry values that only apply when a secondary NCS server or an ENPS Buddy Server is used in the setup.

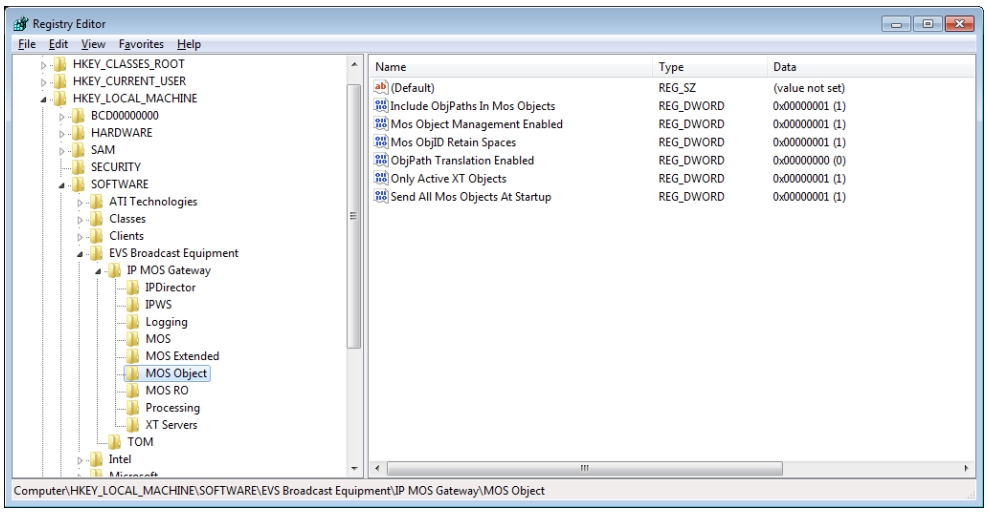


The table below describes the registry values you can manually edit.

Registry Value	Description
Buddy Enabled	Enables or disables the settings that relate to the use of a ENPS Buddy Server for backup purposes. By default, this setting is disabled.
Buddy Ncs ID	The name used to identify the buddy server itself.
Buddy Remote Host Address	The IP address of the NCS MOS Gateway.
Buddy Remote Port Lower	The default TCP/IP port on which the NCS will accept connections from MOS devices. This socket is referred to as the Media Object Metadata port. The default port number is '10540'.
Buddy Remote Port Upper	The default TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.
Secondary Mos Status Update Enabled	Enables or disables the update of a secondary server with the playout status of the IPMOSGateway.
Secondary Ncs ID	The name used to identify the secondary server itself.
Secondary Remote Host Address	The IP address of the backup server that hosts the NCS.
Secondary Remote Port Upper	The TCP/IP port on which IPMOSGateway will accept connections from the NCS. This socket is referred to as the Running Order port. The default port number is '10541'.

MOS Object Subkey

This subkey contains the registry values that relate to the management of MOS objects.

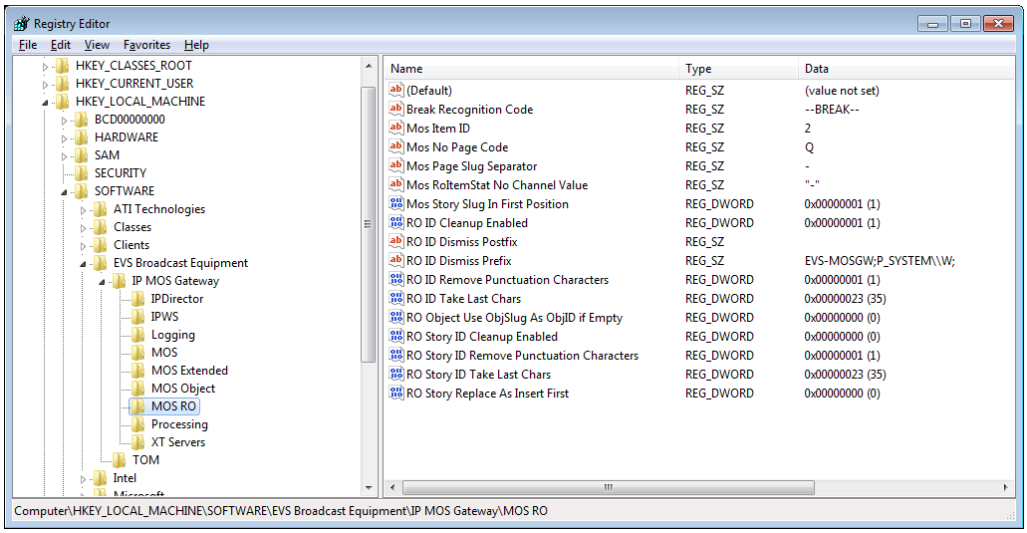


The table below describes the registry values you can manually edit.

Registry Value	Description
Include ObjPaths in Mos Objects	If this setting is enabled, the path to the video files is included in the object definition. If the video files do not exist, the object path will be empty. In the NCS it will be possible to play back the video files. This setting is not used with iNews.
Mos Object Management Enabled	If this settings is enabled, IPMOSGateway sends the clip object definition to the NCS. This settings is not used with iNews.
Mos ObjID Retain Spaces	If enabled, the trailing spaces before and after the MOS objectID will be retained. If disabled, the spaces will be removed.
ObjPath Translation Enabled	If this setting is enabled, you can translate the UNC path of the video file that is linked to an object to an HTTP or FTP path. This setting especially applies to ENPS.
Only Active XT Objects	If this settings is enabled, only the status of clip objects for the servers defined in the IPMOSGateway XT Servers tab will be passed on. This settings is useful when there are more XT servers on the SDTI network that need to be ignored.
Send All Mos Objects At Startup	If this settings is enabled, IPMOSGateway will pass the information for all XT clips to the NCS at start-up. This is useful when the NCS system can accept the clips into its database for user searching.

MOS RO Subkey

This subkey contains the registry values that apply to the Running Order in the NCS.



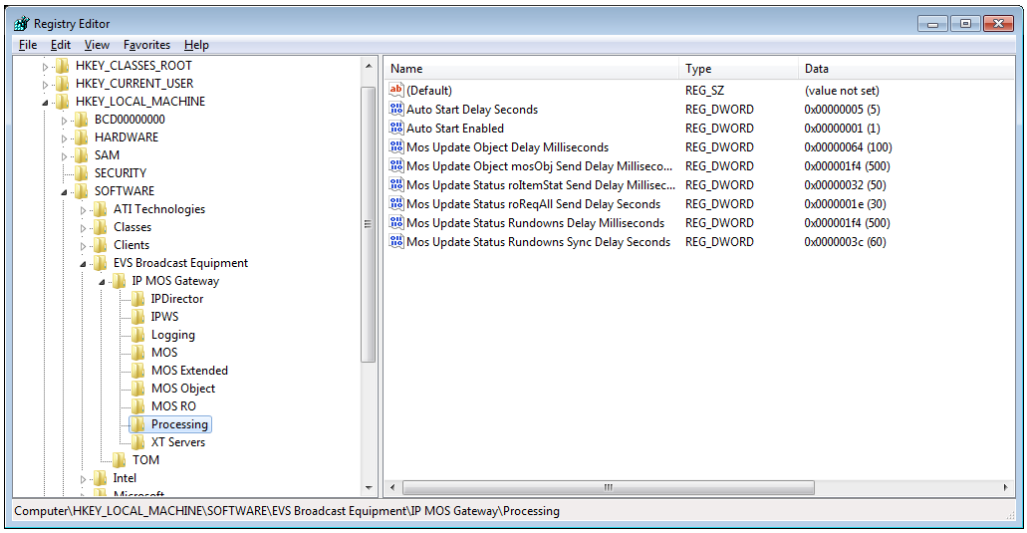
The table below describes the registry values you can manually edit.

Registry Value	Description
Break Recognition Code	If a story has the string **--BREAK--** in its Story Slug it will be converted into a break and seen as a comment in the IPDirector playlist. This setting is used if the NCS MOS Gateway does not send empty stories and does not send real rundown breaks.
Mos Item ID	Default Item ID used by IPMOSGateway when sending RO status to NCS. The default value is '2' for ENPS and 'MOS Active' for iNews.
Mos No Page Code	This setting only applies to iNews. If no page code has been entered for a story in iNews, this has to be reflected in the playlist in IPDirector. The **Page Code** playlist custom field in the IPDirector playlist has to remain empty. In the **Mos No Page Code** field you can enter the value (by default "NO PAGE") that will be used by IPMOSGateway to notify that no page code has been entered in iNews for a story and so that no page code has to be displayed in the IPDirector playlist. The default value is 'Q'.
Mos Page Slug Separator	The default separator used in the Story ID in the Story Slug received trough the MOS protocol from the NCS between the Page Code (iNews) / Segment (ENPS) and Story Slug. The default value is '-'.
Mos RoItemStat No Channel Value	Once a clip in a playlist has been played out on a particular server channel, it is no longer assigned to this channel. In the **roItemStat No Channel Value** key a value can be entered that should be displayed in the Running Order of the NCS to indicate that clip is not assigned to a channel. The default value is '-'.
Mos Story Slug In First Position	If enabled, IPMOSGateway will treat the element before the separator in the Story ID in the Story Slug received trough the MOS protocol from the NCS as the actual Story Slug. If disabled, it will the treat the element after the separator as the Story Slug. For ENPS, this setting is enabled, for iNews it is disabled.
RO ID Cleanup Enabled	Enables the RO ID Cleanup settings or not.
RO ID Dismiss Postfix	Truncates the RO ID sent by the NCS by removing the defined postfix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for iNews to cut off the "RUNDOWN".
RO ID Dismiss Prefix	Truncates the RO ID sent by the NCS by removing the defined prefix and only keep the rest as the playlist VarID. This is useful if the RO ID has more than 32 characters. This setting is mainly necessary for ENPS and iNews to cut off the NCS ID. Example: BEBRWENPS;P_SYSTEM\\W;

Registry Value	Description
RO ID Remove Punctuation Characters	If enabled, the punctuation ('-','.', '' ,...) will be removed from the RO ID after dismissing all parts in previous settings if configured.
RO ID Take Last Characters	Takes only the given number of last characters of the RO IDs. This is necessarry if the RO ID is longer then 32 characters and that the relevant unique ID is at the end of the RoID. This setting is mainly necessary for ENPS. By default, this is set to 35 characters. Example: BEBRWENPS;P_SYSTEM\W;8BEBA3EE-4422-44FA-B280495484F0B681 (= [NCS SERVER];[FOLDER];[GUID]) Last 35 = GUID = 8BEBA3EE-4422-44FA-B280495484F0B681 Remove punctuations = 32 character Playlist VarID = 8BEBA3EE442244FAB280495484F0B681
RO Object Use ObjSlug As ObjID if Empty	If the NCS system passes a RO with an object that does not contain an ObjectID value, the IPMOSGateway can be enabled to utilize the Object Slug as the varID for the playlist element. By default, this setting is not enabled.
RO Story Cleanup Enabled	Enables the Story ID Cleanup settings or not.
RO Story ID Remove Punctuation Characters	If enabled, the punctuation ('-','.', '' , ...) will be removed from the RO Story ID.
RO Story ID Take Last Characters	Takes only the given number of last characters of the story IDs. This is useful if the story ID is rather long and always has the same length prefix. This setting is recommended for ENPS. By default, this is set to 35 characters. Example: Story ID: BEBRWENPS;P_SYSTEM\W\R_ 8BEBA3EE-4422-44FA-B280495484F0B681;469E75B5-31A3-4030-AFF9F3695746BE0B (= [RO_ ID];[GUID]) Last 35 = GUID = 469E75B5-31A3-4030-AFF9F3695746BE0B Remove punctuations = 32 character Playlist Elem Third Party ID = 469E75B531A34030AFF9F3695746BE0B
RO Replace As Insert First	Defines if a story replace is translated in a "delete old story" then "insert new story" (if option is not enabled) or a "insert new story before the old one" then "delete the old story". By default, this setting is not enabled.

Processing Subkey

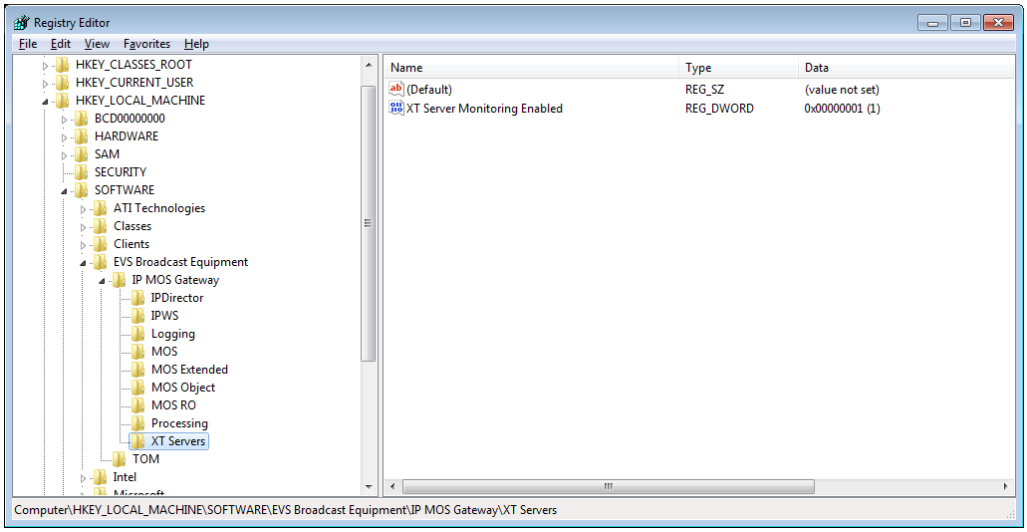
This subkey contains the registry values used to configure some automatic processing tasks.



The table below describes the registry values you can manually edit.

Registry Value	Description
Auto Start Delay Seconds	The amount of time between the application start and the MOS communications autostart. The default value is '5'.
Auto Start Enabled	If enabled, the communication with the IPMOSGateway automatically starts a few seconds after the application startup. By default, this setting is enabled.
Mos Update Object Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will process IPWS events. The default value is '100'.
Mos Update Object mosObj Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send Object updates to the NCS. The default value is '500'.
Mos Update Status roItemStat Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send RO Item status updates to the NCS. The default value is '50'.
Mos Update roReqAll Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will request all active rundowns from the NCS. The default value is '30'.
Mos Update Rundowns Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send an update of all loaded rundowns. The default value is '500'.
Mos Update Rundowns Sync Send Delay Milliseconds	The frequency, in milliseconds, with which IPMOSGateway will send an update of all rundowns to the NCS. This should be set to '0' for ENPS.

XT Servers Subkey



The table below describes the registry values you can manually edit.

Registry Value	Description
XT Server Monitoring Enabled	If this setting is enabled, IPMOSGateway will monitor if the XT servers are running or not. If an XT server is no longer running, IPMOSGateway will no longer update the playlists on the XT server that has stopped. By default, this value is enabled.

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